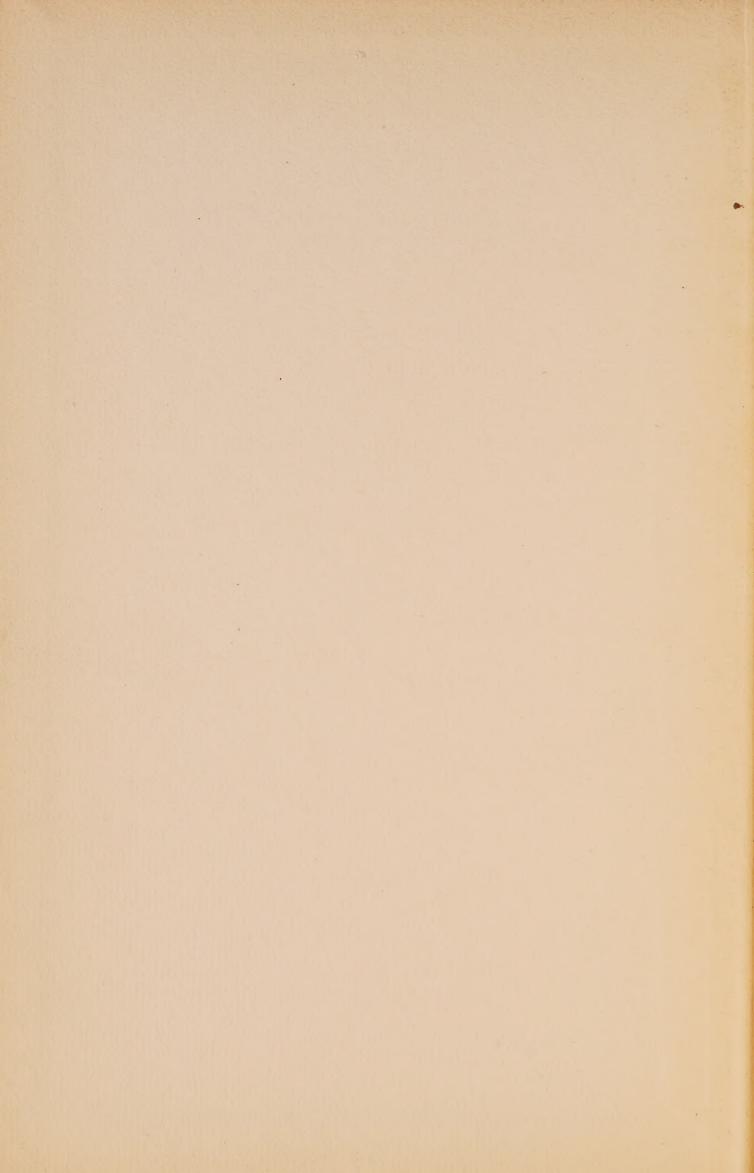


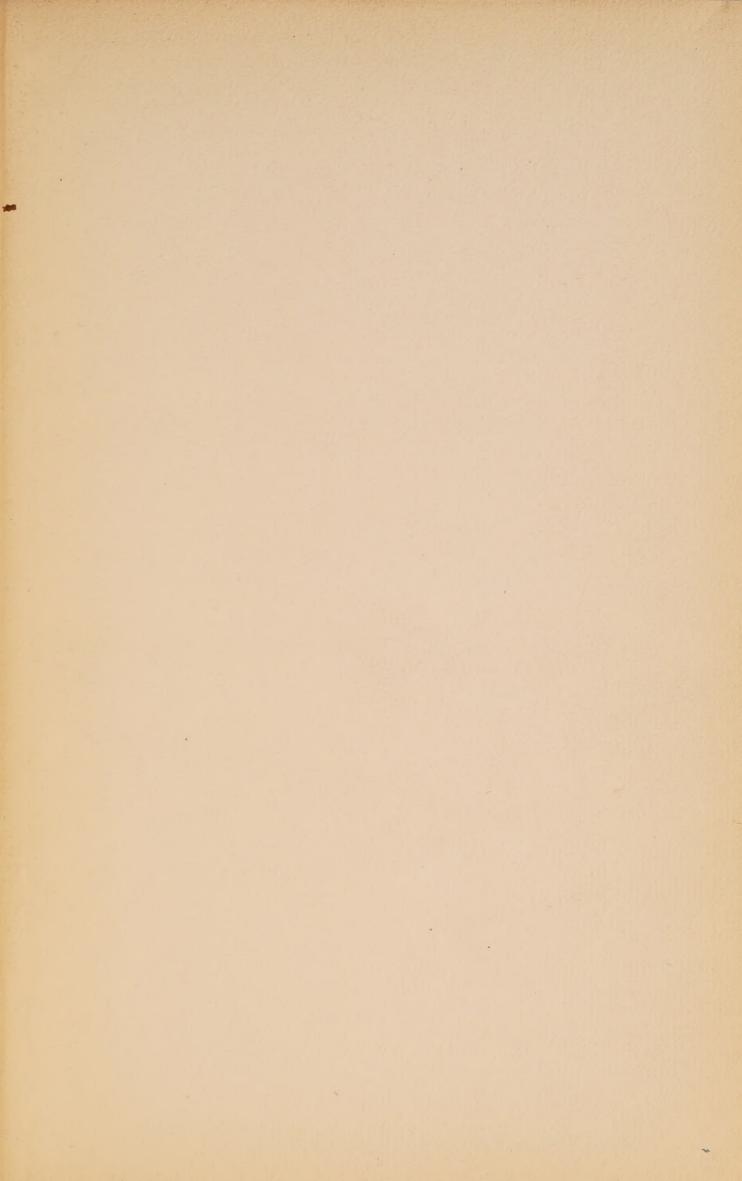
# Columbia Aniversity in the City of Aew York

# BARNARD COLLEGE

ANNOUNCEMENT

1906-1907



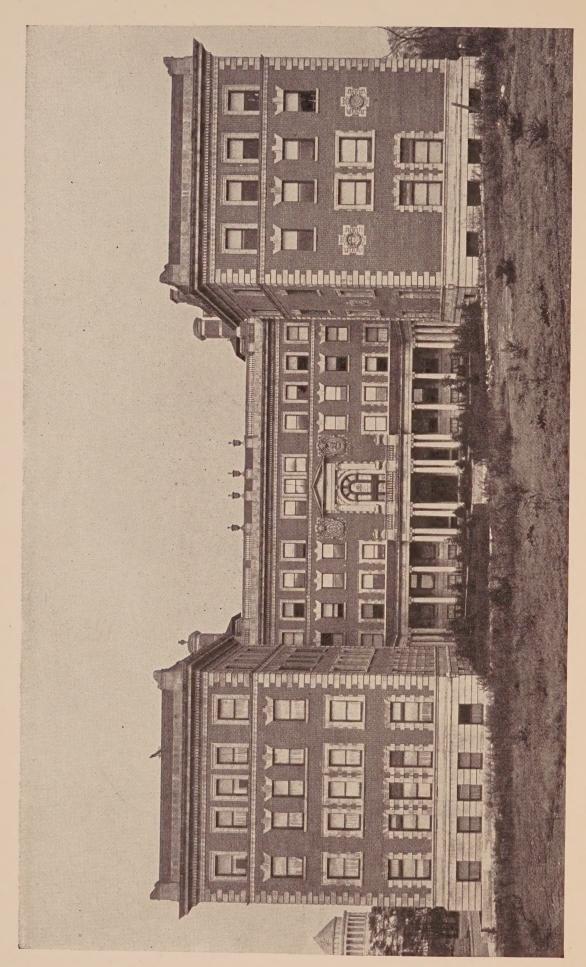








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FISKE HALL



# Columbia University Bulletin of Information

# BARNARD COLLEGE

# ANNOUNCEMENT

1906-1907

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Mr. Townsend

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3	ं नगडे

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[Any donor of not less than \$5000 will be enrolled among the founders of Barnard College.]

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<sup>\*</sup> Deceased.

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JAMES T. SHOTWELL, Ph.D., Adjunct Professor of History

GEORGE WILLIS BOTSFORD, Ph.D., Adjunct Professor of History

EDWARD KASNER, Ph.D., Adjunct Professor of Mathematics

<sup>\*</sup> Absent on leave.

#### Other Officers of Instruction

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Henry Bargy, A.M., Instructor in the Romance Languages and Literatures

GERTRUDE M. HIRST, Ph.D., Instructor in Classical Philology

WILLIAM P. MONTAGUE, Ph.D., Instructor in Philosophy

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ELIZABETH ILSLEY THOMPSON, A.B., Assistant in Botany, Assistant in Philosophy

<sup>\*</sup> Absent on leave.

#### Standing Committees of the Faculty

COMMITTEE ON THE PROGRAM OF STUDIES: The DEAN, chairman, Professors Robinson, Trent, Knapp, and Maltby

Committee on Admissions: Professors Cole, chairman, Brewster, and Richards

COMMITTEE ON SCHOLARSHIPS: The DEAN, chairman, Professor Robinson and Dr. Hirst

COMMITTEE ON HONORS: Professors LORD, chairman, KNAPP, and KASNER

COMMITTEE ON STUDENT ORGANIZATIONS: Professors CRAMPTON, chairman, Moore, and Dr. Reimer

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# THE RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY

According to the agreement made January 19, 1900, between the Trustees of Columbia College in the City of New York and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, ex-officio, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That on and after July 1, 1904, all of the undergraduate instruction for women shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the senior year, without regard to the time limit contained

in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Masters of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

That the University will confer the degree of Bachelor of Arts or Bachelor of Science upon any student of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts or Bachelor of Science shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degrees conferred upon the graduates of Barnard College shall be maintained at all times as of equal value with the corresponding degrees conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

#### Teachers College

The provision made at Teachers College for students of Barnard College that wish to avail themselves of the advantage of professional training is explained in detail on pp. 50-51.

# Barnard College

## GENERAL STATEMENT

Barnard College offers two distinct liberal courses of undergraduate instruction for women, each of four years' duration, but differing widely in aim and leading to different degrees.

The literary course requires the study of Latin for entrance and also in course, embraces such general courses as are deemed essential for a liberal education, requires a major subject equivalent to a three-hour course throughout three years, and leads to the degree of Bachelor of Arts.

The science course allows the substitution of scientific and advanced subjects in place of the entrance Latin, embraces such general courses as are considered essential to any liberal education, requires a major and two minor subjects in pure science amounting to seventy points of college work and leads to the degree of Bachelor of Science.

### **ADMISSION**

The Committee on Admissions has charge of everything relating to this subject.

#### **ATTENDANCE**

The University requires of all students attendance upon all stated academic exercises. Students who find that stated academic exercises are fixed for days set apart for religious observance by the church to which they belong, and who are prevented by conscientious scruples from performing their University duties on those days, are requested to make application to the appropriate University authority for equitable relief. It should be noted, however, that in case alternative opportunities for taking a given examination are statedly offered, as for instance the January, June, and September entrance examinations, such students are expected to present themselves on the day which is not set apart as a holy day. In other cases, candidates for admission should make application to the Chairman of the Committee on Admissions of Barnard College, and students already matriculated should apply to the Dean.

#### ACADEMIC DISCIPLINE

Under the Statutes all students are admitted subject to the disciplinary power of the University.

#### ADMISSION TO THE FRESHMAN CLASS

Candidates for admission to the freshman class must, at its formation, be at least fifteen years of age; and for admission to advanced standing a corresponding increase of age is required; but this rule may be dispensed with when, in the opinion of the Committee on Admissions, there are sufficient reasons to justify its relaxation.

Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen, and students from other institutions must bring certificates of honorable dismissal.

#### REQUIREMENTS FOR ADMISSION

Every candidate for admission to the freshman class is required at the entrance examinations to offer subjects amounting to fifteen (15) points<sup>1</sup> as indicated below.

The candidate<sup>2</sup> must offer:

	COUNTING IN POINTS
English (page 29)	3
Elementary Mathematics (page 38)	3
and in case of a candidate for the A.B. degree	•
Elementary Latin (page 37)	4
or in case of a candidate for the B.S. degree:	
Science	2
Advanced or Intermediate subjects	. 2

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

	COUNTING IN POINTS
Elementary Greek (page 35)	3
Elementary History (page 35)	2
Drawing (page 35)	I
<sup>3</sup> Music (page 39)	I
Intermediate French (page 32)	I
Intermediate German (page 34)	I
<sup>3</sup> Advanced English (page 31)	I

<sup>&</sup>lt;sup>1</sup> The relative value of subjects is expressed in points according to the time required for adequate preparation in them; a point in the sense here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

<sup>&</sup>lt;sup>2</sup> A student who has prepared to enter the collegiate course at Teachers College and cannot offer either four (4) points of Latin or the substitute [two (2) points of science and two (2) in advanced subjects] will be allowed for the year 1906-07 to matriculate in Barnard College, as candidate for transfer at the end of the sophomore year to the professional schools of the University, on fifteen (15) points, including three (3) points of English and three (3) points of mathematics. The remaining nine (9) points, by vote of the Teachers College Faculty, are to be offered as follows: Four (4) points in ancient or modern foreign languages, and five (5) in history, foreign languages, mathematics, or the natural sciences.

<sup>&</sup>lt;sup>3</sup> Candidates will be examined in this subject only in September or January.

		COUNTING IN POINTS
	Advanced Greek (page 35)	I
	<sup>1</sup> Advanced History (page 36)	I
	<sup>1</sup> Advanced Latin (page 37)	I
	Advanced Mathematics (page 38)	r
	<sup>1</sup> Advanced Physics (page 40)	T
ıe	candidate may offer not more than four (4)	noints in all from

The candidate may offer not more than four (4) points in all from the three subjects following:

Tit	COUNTING IN POINTS
Elementary French (page 31)	2
Elementary German (page 33)	2
Spanish (page 40)	2

The candidate may offer not more than two (2) points in all from the five subjects following:

Botany (page 26)	COUNTING IN POINTS
Botany (page 26)	I
Chemistry (page 27)	ı
Elementary Physics (page 39)	I
Physiography (page 40)	I
<sup>1</sup> Zoölogy (page 40)	ī

#### ENTRANCE EXAMINATIONS

In 1906 the examinations will begin on June 18 and September 17 respectively. In 1907 the January examinations will begin on January 21.

In June, 1906, the entrance examinations of Barnard College will be those of the College Entrance Examination Board of which Columbia University is a member.

In September, 1906, and January, 1907, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Entrance Examinations, and will be held only at the College The College Entrance Examination Board at present holds examinations only in June.

#### APPLICATION FOR EXAMINATION

Every candidate for examination is required to file an application for examination.

For the examinations in June, 1906, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River), must be filed on or before June 4. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 28; and applications for examination at points outside of the United States and Canada must be filed on or before May 14. Candidates filing their applications later than the dates named do so at their own risk. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board.

<sup>&</sup>lt;sup>1</sup> Candidates will be examined in this subject only in September or January.

Candidates for the competitive scholarships to be awarded on the basis of the June examinations must, when filing an application with the Secretary of the College Entrance Examination Board, notify the Secretary of that Board for which one of the Barnard College scholarships they are competing; in which case their answer books, after being read by the readers of the Board, will be transmitted to the Committee on Admissions of Barnard College.

For the examinations in September, 1906, and January, 1907, candidates for admission to Barnard College should send their applications to the Registrar of Barnard College. Applications must be filed on or before September 10 and January 14, respectively. Candidates filing their applications later than this date do so at their own risk. Requests for blank forms of application should be addressed to the Registrar of Barnard College.

#### **EXAMINATION FEE**

Every application for examination in June must be accompanied by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*, for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Every application for examination in September must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of Barnard College, by a receipt from the Bursar of Barnard College for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations immediately preceding. The latter will be accepted in either September or January but not in both; and a single fee paid to the University will cover only two consecutive series of examinations, namely January and September or September and January.

If a late application is accepted either by the College Entrance Examination Board, or by the University Committee on Entrance Examinations, a second fee of \$5 must be paid.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which she attends as evidence that she is entitled to be admitted to the same. No candidate will be admitted to the September or January examinations upon the receipt of the College Entrance Examination Board, unless that receipt bears the certification of the Registrar of Barnard College that the candidate's application for the examinations has been filed.

<sup>&</sup>lt;sup>1</sup> An examination fee paid to the College Entrance Examination Board for admission to the June examinations does not cover the matriculation fee of Barnard College.

#### Division of Examination

A candidate may present herself at any of the scheduled series of examinations subject to the following restrictions:

- (1) She may not count more than three series of examinations except by special consent of the Committee on Admissions of Barnard College.
- (2) At the *first* series credit will be given only for such subjects or lettered (or numbered) parts of a subject, as are approved by her principal instructor.
- (3) The results of an examination shall stand to her credit for twenty months, but no longer.

#### Places of Examination

In June, 1906, entrance examinations will be held at a large number of widely distributed points, a list of which will be published by the College Entrance Examination Board (Post-Office Sub-Station 84, New York, N. Y.), about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the College Entrance Examination Board not later than February 1.

In September, 1906, and January, 1907, examinations for admission to Barnard College will be held only at the College.

### Schedule of Examinations

All entrance examinations are conducted in the Barnard College Theatre.

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

#### June 18-23, 1906

#### Monday, June 18

Mathematics a, i, ii, (elementary algebra: to quadratics;	
quadratics, and beyond)	9.30-12.30
History b (mediæval and modern history)	1.30-3.30
History d (American history)	1.30-3.30
Physics (elementary)	3.45-5.45
Botany	3.45-5.45
Tuesday, June 19	
Mathematics $c$ , $d$ (plane geometry; solid geometry)	9-12
History a (ancient history)	1.30-3.30
History c (English history)	1.30-3.30
German a (elementary German)	3.45-5.45

# Wednesday, June 20

Latin m (elementary sight translation of prose)  French a (elementary French)  German b (intermediate German)  Spanish  Thursday, June 21	10.45-12.30 1.30-3.30 3.45-5.45 3.45-5.45
Latin c (Cicero)	9-11 11.15-12.30 1.30-3.30 3.45-5.45
Friday, June 22	
English a (reading and practice)  Latin l (prose composition).  English b (study and practice).  Chemistry.  Physiography.  Greek c (Homer's Iliad, Books I–III).	9-11 11.15-12.30 1.30-3.30 3.45-5.45 3.45-5.45 3.45-5.45
Saturday, June 23	
Greek b (Xenophon)  Drawing  Greek a (grammar and elementary prose composition)  Mathematics e (trigonometry)  Greek g (sight translation of prose)  Greek f (prose composition)	9-11 9-11 11.15-12.30 1.30-3.30 1.30-3.30 3.45-5.45
September 17-22, 1906 January 21-26, 1907	
Monday, September 17, and January 21	
Mathematics a, i, ii (elementary algebra: to quadratics; quadratics, and beyond)	9.15-11.45 1-3 3-4.30 4.30-6
Tuesday, September 18, and January 22	
Mathematics c, d (plane geometry; solid geometry)  French a (elementary French)  Chemistry  Spanish	9-12 1-3 3-4.30 4.30-6

## Wednesday, September 19, and January 23

Latin a (grammar and elementary prose composition)	9-10
Latin c (Cicero)	10-11
Latin m (elementary sight translation of prose)	11-12
History a (ancient history)	1-2.30
History c (English history)	1-2.30
German b (intermediate German)	2.45-4.30
Thursday, September 20, and January 24	
Greek a (grammar and elementary prose composition)	0-10
Greek b (Xenophon)	10-11
Greek g (sight translation of prose)	11-12
Drawing	9.30-12
Latin d (Virgil's Æneid, Books I–VI)	2-3
Latin l (prose composition)	3-4
French b (intermediate French)	4-5.45
Friday, September 21, and January 25	
English a (moding and modica)	
English a (reading and practice)	9-10.30
English b (study and practice)	
Greek c (Homer's Iliad, Books I–III)	1-3
Greek f (prose composition)	3.15-4.15
orcea / (prose composition)	4.15-5.15
Saturday, September 22, and January 26	
History b (mediæval and modern history)	9-10.30
History d (American history)	9-10.30
Botany 1,	10.30-12
Physiography 1	10.30-12
Advanced English 1	10.30-12
Advanced Greek 1	10.30-12
Advanced history 1	10.30-12
Advanced Latin 1	10.30-12
Advanced physics 1	10.30-12
Zoölogy 1	10.30-12

#### REPORT OF ENTRANCE EXAMINATIONS

The Committee on Admissions will report to the Dean as soon as practicable after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions and of those who must present themselves for reëxamination in September.

The Committee on Admissions will report to the Dean not later than

<sup>&</sup>lt;sup>1</sup>A candidate offering more than one of these subjects will be required to complete the examinations in all the subjects offered before being permitted to leave the examination room.

one week after the conclusion of the entrance examinations in September and January the names of those candidates who, upon a final showing, may be admitted with or without conditions and of those who have been rejected.

## CERTIFICATES IN LIEU OF ENTRANCE EXAMINATIONS

Barnard College accepts, in lieu of its entrance examinations, no credentials of any sort except the Regents' Academic Diploma<sup>1</sup> and the certificates of approved colleges, and these only for the subjects which they specifically cover. Certificates of the preparatory or high-school departments of universities and colleges are not accepted.

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

All certificates so offered must be in the hands of the Barnard College Committee on Admissions at least two weeks before the first day of the entrance examinations.

## ENTRANCE CONDITIONS AND PROBATION

A student may be admitted to the freshman class on probation when the total number of points received by her in the entrance examinations amounts to eleven (11) out of the total required fifteen (15) points; but this rule is subject to the proviso that the four (4) points of deficiency do not include the whole of any prescribed subject. A total failure in any one of these subjects will be regarded as disqualifying a candidate for admission.

A student admitted conditionally or by certificate will be held under probation during the first half-year of residence. Not later than Tuesday of the second week following the Christmas holidays, each department in which students on probation attend shall make to the Dean a special report of progress in the case of every such student. The Dean shall as soon as practicable after the mid-year examinations decide as to each student on probation, whether she shall be admitted to full standing, have her period of probation extended, or be dropped from the roll.

The mark O, B, or A, obtained in any subject at the end of the first half-year of residence, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the college course.

<sup>&</sup>lt;sup>1</sup>For 1906-07 every Regents' Academic Diploma is considered to cover the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the entrance examination in French or in German unless it covers the complete two-years' high-school course in these languages as recognized by the Regents. To be accepted in lieu of all parts of the examination in Latin or in Greek a Regents' Academic Diploma must specifically cover, among other things, sight-reading and prose composition. In the case of the natural sciences a Regents' Academic Diploma will not be accepted for the required laboratory work. No diploma granted more than two (2) years before the applicant presents herself for matriculation will be accepted. No form of Regents' certificy'es other than the Academic Diploma will be accepted in lieu of the examinations in any subject.

Every entrance condition that is not removed under the operation of the foregoing provision must be made good at the regular entrance examinations of the year following the student's admission.

No student may be admitted to the sophomore class until she shall have removed all her entrance conditions.

## ADMISSION TO ADVANCED STANDING

Candidates for admission from other colleges and students who desire to be admitted to advanced standing on examination must make application in writing to the Barnard College Committee on Admissions. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of

- 1. The requirements for admission to the freshman class;
- 2. All the prescribed studies already pursued by the class to which she seeks admission;
- 3. As many elective studies as she would have pursued if she had entered the class at the beginning of the freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for a degree until she shall have brought all her studies up to the point required for that degree.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) a letter of honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.

The credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student prove that the granting of the credits was wholly or in part unwarranted by her previous work.

No student may receive a degree who has resided less than two full half-years at Barnard College. With regard to the time within which all requirements for the degree must be fulfilled see paragraph 11, p. 48.

No applicant will be allowed to enter the senior class as a candidate for a degree after October 15 in any year.

Candidates for admission to the freshman class offering for entrance more than the required 15 points shall be given credit toward a degree for this extra work, on a basis to be determined by the Committee on Admissions, provided that not more than 18 of the 124 points required for a degree may be gained in this way.

#### ADMISSION AS SPECIAL STUDENTS

Candidates for admission as special students must make application in writing at least one week before the first day of the entrance examinasiont in September or in January. Proper blanks for this purpose may be obtained from the Registrar.

Special students in Barnard College are of two classes: non-matriculated and matriculated.

Non-matriculated special students must be women of mature age who wish to pursue chiefly advanced courses of special study. They may be admitted at the discretion of the Committee on Admissions without passing formal entrance examinations. They must furnish proof that they have at some time pursued the studies included in the matriculation examinations and must satisfy the requirements of the department that they desire to enter.

No courses taken by non-matriculated special students can at any time be counted by them toward a degree.

Matriculated special students are women who wish, without taking a degree, to make a serious study of some subject or group of subjects. They must pass the regular examinations for admission to the freshman class and have full credit for fifteen (15) points of the entrance requirements. (See p. 17.) They may, therefore, in event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or who has, within that period, become deficient as a regular student.

Once admitted to the college, special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue at a given time courses amounting to at least eight (8) points, unless excused by the Dean for reasons of special weight.

In the courses which they severally pursue all special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

#### **DEFINITIONS OF REQUIREMENTS** 1

(Specimens of the question papers set by Columbia University may be obtained from the Registrar upon application. The question papers set by the College Entrance Examination Board are published annually in book form by Ginn & Company, Boston, Mass., and are sold for sixty cents a volume.

For a more detailed statement of the requirements in botany and physiography the reader is referred to the pamphlet containing definitions of the requirements in each subject, which is published by the College Entrance Examination Board. This pamphlet also contains lists of suitable laboratory experiments in chemistry and physics.)

#### BOTANY (counting one point)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (e. g., Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiatæ, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, Selaginella, a fern, a moss (Polytrichum or Funaria), a leafy hepatic, Marchantia, a mildew (Microsphæra), an agaric, Vaucheria, Spirogyra, and a protophyte (preferably Sphærella).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, a note-book must be submitted. (See Submission of Note-books, page 43.)

<sup>&</sup>lt;sup>1</sup> The relative value of subjects is expressed in points according to the time for adequate preparation in them; a point in the sense here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

#### CHEMISTRY (counting one point)

The candidate's preparation in Chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises. An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 43.)

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

OUTLINE.—The chief physical and chemical characteristics, the preparation and the recognition of the following elements together with their principal compounds: oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminum, lead, tin, iron, manganese, chromium.

More detailed study should be confined to the italicized elements (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

#### DRAWING (counting one point)

A candidate must be able to draw and sketch correctly and with proper shading and accuracy of proportion, a simple geometrical figure, a group of geometrical solids, or a simple piece of machinery, showing a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. A candidate must also be able to reproduce from a flat copy with enlargement or reduction in size.

A candidate who has had a fair amount of training in drawing and wishes to be excused from a formal examination in this subject may submit drawings, especially systematic sets of drawings, executed at school. (See Submission of Note-books, page 43.)

Beginning in June, 1907, the examination in Drawing will be based upon the following requirements:

The candidate's preparation in drawing should include simple geometrical, plane, and solid figures, simple pieces of machinery, the drawing of simple pieces of architectural ornament (a Greek anthemion, a design of iron scrollwork, etc.), the copying of machinery details, or the copying of still life and simple plant forms, with a fair knowledge of perspective and light and shade as applied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

Every candidate must present at the time of and as part of the examination in drawing a set of drawings executed during one year's course in a preparatory school and within a period of two years before the time of application for admission.

These drawings should be at least twenty in number and should display the proficiency of the student in the following points:

- 1. Ability to sketch freehand from dictation with reasonable accuracy and with fairly correct steady and clean lines any simple geometrical figure or combinations of figures, straight lines, squares and circles, polygons, spirals, or the like.
- 2. Ability to sketch from the object with reasonable correctness of proportion, structure, and form, geometrical models, simple vases, simple details of machinery or common objects such as ordinary household furniture and utensils.
- 3. Ability to sketch from the copy, enlarging or reducing its dimensions, any simple object such as a globe valve, stop-cock, or any ordinary historical ornament such as an acanthus leaf, egg and dart ornament, anthemion, tile pattern, iron scrollwork, or the like.

Correctness of proportion and accuracy in the angles and curves and structural relations of the parts of every figure or object drawn are of the highest importance, and great care should be taken in laying out the drawings in the use of construction lines and in the drawing of general masses and contour before the details are begun.

A certain proportion of shade drawing from casts may be included, but they are not required and should not form the majority of the drawings submitted.

These drawings must be properly certified by the teacher, and the endorsement must be in effect as follows:

Instructor in Drawing.

In case the candidate has not attended a systematic course of instruction as detailed above she may submit a corresponding set of freehand drawings, duly certified by her instructor, or with her own signed declaration that the drawings are her own work.

#### **ENGLISH**

#### Elementary (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

- a. Reading and composition.—The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before her in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In every case knowledge of the book will be regarded as less important than the ability to write good English. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by her instructor containing compositions or other written work done in connection with the reading of the books, and prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. (See Submission of Note-books, page 43.)
  - In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.
  - Candidates intending to take this part of the examination should read the books prescribed for the year in which they propose to submit themselves for examination in this subject.
  - The books prescribed for this part of the examination are as follows:
  - In 1906, 1907, and 1908: Shakspere's Merchant of Venice and Macbeth; The Sir Roger de Coverley Papers in the Spectator; Irving's Life of Goldsmith; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and

Lynette, Launcelot and Elaine, and The Passing of Arthur; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1909, 1910, and 1911 ten books, selected from the following list as prescribed below, are to be offered for examination:

Group I (two to be selected). Shakspere's As you Like It, Henry V, Julius Cæsar, The Merchant of Venice, Twelfth Night.

Group II (one to be selected). Bacon's Essays; Bunyan's The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography.

Group III (one to be selected). Chaucer's Prologue; Spenser's Faerie Queene (selections); Pope's The Rape of the Lock; Goldsmith's The Deserted Village; Palgrave's Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected). Goldsmith's The Vicar of Wakefield; Scott's Ivanhoe; Scott's Quentin Durward; Hawthorne's The House of the Seven Gables; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; Dickens's A Tale of Two Cities; George Eliot's Silas Marner; Blackmore's Lorna Doone.

Group V (two to be selected). Irving's Sketch-Book; Lamb's Essays of Elia; De Quincey's Joan of Arc and The English Mail Coach; Carlyle's Heroes and Hero Worship; Emerson's

Essays (Selected); Ruskin's Sesame and Lilies.

- Group VI (two to be selected). Coleridge's The Ancient Mariner; Scott's The Lady of the Lake; Byron's Mazeppa and The Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's Lays of Ancient Rome; Poe's Poems; Lowell's The Vision of Sir Launfal; Arnold's Sohrab and Rustum; Longfellow's The Courtship of Miles Standish; Tennyson's Gareth and Lynette, Launcelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boys and the Angel, One Word More, Hervé Riel, Pheidippides.
- b. Study and composition.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a con-

siderable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1906, 1907, and 1908: Shakspere's Julius Cæsar; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essay on Addison and Life of Johnson.

In 1909, 1910, and 1911: Shakspere's Macbeth; Milton's Lycidas-Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

#### Advanced (counting one point)

The requirement in advanced English is the equivalent of English A1-A2, the course prescribed for freshmen. Candidates are examined in the following subjects:

- r. English composition, with special attention to correctness of style and orderly arrangement of material. In preparation for this part of the examination, the student should gain a practical acquaintance with the principles of rhetoric as expounded in any good textbook.
- 2. English literature—the general history from the Anglo-Saxon period to the death of Tennyson, and selected works from the Elizabethan period to the present day. (A list of these works can be obtained on application to the Secretary of the University.)

In examination the candidate will be expected to answer questions on the history of English literature and to write short essays based on topics relating to the works prescribed. In addition, she must submit, at least two weeks before the examinations begin, not less than ten essays of at least 500 words each. At least half, but not all, should be on topics chosen from the books prescribed.

#### FRENCH

#### a. Elementary (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common

irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's Le roi des montagnes, Bruno's Le tour de la France, Daudet's easier short tales, La Bédolière's La Mère Michel et son chat, Erckmann-Chatrian's stories, Foa's Contes biographiques and Le petit Robinson de Paris, Foncin's Le pays de France, Labiche and Martin's La poudre aux yeux and Le voyage de M. Perrichon, Legouvé and Labiche's La cigale chez les fourmis, Malbot's Sans famille, Mairet's La tâche du petit Pierre, Mérimée's Colomba, extracts from Michelet, Sarcey's Le siège de Paris, Verne's stories.

#### b. Intermediate (counting one point)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE.—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's Le gendre de M. Poirier, Béranger's poems, Corneille's Le Cid and Horace, Cop-

pée's poems, Daudet's La Belle-Nivernaise, La Brète's Mon oncle et mon curé, Madame de Sévigné's letters, Hugo's Hernani and La chute, Labiche's plays, Loti's Pêcheur d'Islande, Mignet's historical writings, Molière's L'avare and Le bourgeois gentilhomme, Racine's Athalie, Andromaque, and Esther, George Sand's plays and stories, Sandeau's Mademoiselle de la Seiglière, Scribe's plays, Thierry's Récits des temps mérovingiens, Thiers's L'expédition de Bonaparte en Egypte, Vigny's La canne de jonc, Voltaire's historical writings.

#### GERMAN

#### a. Elementary (counting two points)

The Aim of the Instruction.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving her ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

The Work to be Done.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use her knowledge with facility in the formation of sentences, and, secondly, to state her knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's Märchen and Bilderbuch ohne Bilder; Arnold's

Fritz auf Ferien; Baumbach's Die Nonna and Der Schwiegersohn; Gerstäcker's Germelshausen; Heyse's L'Arrabbiata, Das Mädchen von Treppi, and Anfang und Ende; Hillern's Höher als die Kirche; Jensen's Die braune Erica; Leander's Träumereien and Kleine Geschichten; Seidel's Märchen; Stökl's Unter dem Christbaum; Storm's Immensee and Geschichten aus der Tonne; Zschokke's Der zerbrochene Krug.

Among the shorter plays the best available are perhaps Benedix's Der Prozess, Der Weiberfeind, and Günstige Vorzeichen; Elz's Er ist nicht eifersüchtig; Wichert's An der Majorsecke; Wilhelmi's Einer muss heiraten. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's Märchen, or Bilderbuch, or Leander's Träumereien, to the extent of, say, forty pages. After that such a story as Das kalte Herz, or Der zerbrochene Krug; then Höher als die Kirche, or Immensee; next a good story by Heyse, Baumbach, or Seidel; lastly Der Prozess.

## b. Intermediate (counting one point)

The Aim of the Instruction.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

The Work to be Done.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's Die Freiherren von Gemperlein; Freytag's Die Journalisten and Bilder aus der deutschen Vergangenheit—for example, Karl der Grosse, Aus den Kreuzzügen, Doktor Luther, Aus dem Staat Friedrichs des Grossen; Fouqué's Undine; Gerstäcker's Irrefahrten; Goethe's Hermann und Dorothea and Iphigenie; Heine's poems and Reisebilder; Hoffmann's Historische Erzählungen; Lessing's Minna von Barnhelm; Meyer's Gustav Adolfs Page; Moser's Der Bibliothekar; Riehl's Novellen—for example, Burg

Neideck, Der Fluch der Schönheit, Der stumme Ratsherr, Das Spielmannskind; Rosegger's Waldheimat; Schiller's Der Neffe als Onkel, Der Geisterseher, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen; Scheffel's Der Trompeter von Säkkingen; Uhland's poems; Wildenbruch's Das edle Blut.

#### GREEK

# Elementary (counting three points)

a. i. Grammar.

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

ii. Elementary Prose Composition.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's Anabasis.

Beginning in June, 1907, Greek a. i. and ii. will be considered as a single, indivisible subject.

b. Xenophon.

The first four books of the Anabasis.

c Homer.

The first three books of the Iliad (omitting II, 494-end) and the constructions, poetical forms, and prosody of Homer's Iliad.

f. Prose Composition.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

g. Sight Translation of Prose.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's Anabasis.

# Advanced (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek 3-4 (see courses announced by the Department of Greek). In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's Greek Prose Composition will show the grade of preparation demanded. Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

#### HISTORY

# Elementary (counting two points)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

First Group:

- a Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.
- b. Mediæval and modern history, with due reference to the growth of the state-system.

Second Group:

- c. English history, with due reference to social and political development.
- d. American history, with the elements of civil government.

Note.—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examination will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

## Advanced (counting one point)

The requirement in advanced history is intended to be an equivalent for History Ar-A2—the course prescribed in Barnard College (see courses given by Department of History). The work done at school, therefore, should be substantially identical with that course. Those candidates who have taken the examination in elementary history, and desire to offer history as an advanced subject, must present themselves for examination upon the historical fields included in that group which they did not offer as an elementary subject. For example, if a candidate offers the first group as the elementary subject, she must offer the second group as the advanced subject, and vice versa. The examination will presuppose superior ability on the part of the candidate in advanced history to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.

As further evidence of proficiency, satisfactory written work, must be presented in the form of a note-book, or bound collection of notes (see Submission of Note-books, p. 43,) containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.

(c) Written parallels between historical characters, events, or

periods.

(d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.

(e) Historical maps or charts showing explorations, migrations,

conquests, territorial changes, or social phenomena.

#### LATIN

## Elementary (counting four points)

#### a. i. Grammar.

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

ii. Elementary Prose Composition.

Translation into Latin of detached sentences and very easy, con-

tinuous prose based upon Cæsar and Cicero.

Beginning in June, 1907, Latin a. i. and ii. will be considered as a single, indivisible subject.

#### c. Cicero.

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

d. Virgil.

The first six books of the Æneid, and so much of prosody as relates to accent, versification in general, and the dactylic hexameter.

l. Prose Composition.

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

m. Elementary Sight Translation of Prose.

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

#### Advanced (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course prescribed for freshmen (see courses announced by the Department of Latin). The examination will be based on the reading of Cicero's De Senectute and De Amicitia, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniell's New Latin Composition; also the reading of the first and third books of the Odes of Horace, with a satisfactory knowledge of the prosody.

Candidates applying for examination in this subject must designate the equivalents, if any, which they wish to offer.

#### MATHEMATICS

Elementary (counting three points)

- a Elementary algebra.
  - i. The four fundamental operations for rational algebraic expressions.
    - Factoring, determination of highest common factor and lowest common multiple by factoring.
    - Fractions; including complex rfactions, ratio and proportion.
    - Linear equations, both numerical and literal, containing one or more unknown quantities.
    - Problems depending on linear equations.
    - Radicals, including the extraction of the square root of polynomials and of numbers.
    - Exponents, including the fractional and negative
  - ii. Quadratic equations, both numerical and literal
    - Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations.
    - Problems depending upon quadratic equations.
    - The binomial theorem for positive integral exponents.
    - The formulas for the *n*th term and the sum of the terms of arithmetic and geometric progressions, with applications.
    - It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.
- c. Plane geometry.
  - The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle.
  - The solution of numerous original exercises, including loci problems.
  - Applications to the mensuration of lines and plane surfaces.

#### Advanced (counting one point)

- d. Solid geometry.
  - The usual theorems and constructions of good text-books; including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.
  - The solution of numerous original exercises, including loci problems.

Applications to the mensuration of surfaces and solids.

e. Trigonometry.

Definitions and relations of the six trigonometric functions as

ratios; circular measurement of angles.

Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formalas.

Solution of trigonometric equations of a simple character.

Theory and use of logarithms (without the introduction of work involving infinite series).

The solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

MUSIC (counting one point)

The candidate may offer either of the following subjects, preferably the first:

a. Musical Appreciation.

A general knowledge of the principal musical forms—song, classic dance, fugue, sonata (all movements), and symphony—and of their historical development; an acquaintance with the lives of the great composers since 1685 A.D., and with their compositions.

b. Harmony.

The ability to harmonize a simple soprano of not fewer than eight measures in four vocal parts, involving, in major or minor modes, diatonic chords of the seventh and modulation, transient or complete, to next-related keys; the ability to analyze (by indicating the keys, the chords, and the various non-harmonic tones employed) a simple piece of music involving altered chords, passing tones, suspensions, appoggiaturas, and pedal-point.

PHYSICS

# Elementary (counting one point)

The candidate's preparation in physics should include:

a. The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.

b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in

the pupil's laboratory investigations.

c. Individual laboratory work, comprising at least thirty-five exercises distributed about as follows: mechanics 13, sound 3, heat 5, light 6, electricity 8. An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 43.)

## Advanced (counting one point)

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way, in a course equivalent to that known as Physics II-I2 (see courses announced by the Department of Physics).

# PHYSIOGRAPHY (counting one point)

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate. An indexed note-book containing the record of these exercises must be submitted. (See Submission of Note-books, page 43.)

# SPANISH (counting two points)

THE AIM OF THE INSTRUCTION.—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's El pájaro verde; Alarcón's El final de Norma, El capitán Veneno; Valdès's José; Galdós's Doña Perfecta; Marianela; Padre Isla's version of Gil Blas; Carrion and Aza's Zaragūeta.

# ZOÖLOGY (counting one point)

In general, zoology is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoology is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, her knowledge of the more essential facts of

physiology.

Practical Zoölogy. A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (Hydra), and protozoan. In the examination less weight is laid on a knowledge of anatomical minutiæ than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

Elementary Physiology. The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's Human Body (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical

zoölogy.

Beginning in June, 1907, the examination in Zoölogy will be based upon the following requirements:

The requirement in Zoölogy is in accordance with the report of a committee appointed by the American Society of Zoölogists.

OUTLINE FOR THE ONE-POINT OPTION IN ZOÖLOGY.—The following outline includes the principles of zoölogy which are indispensable to a general survey of the science. It is planned for a full year's course. It is not intended to indicate order of study of the topics—this must be left to the teacher and the text-book.

r. The general natural history—including general external structure in relation to adaptations, life histories, geographical range, relations to other plants and animals, and economic relations—of common vertebrates and invertebrates so far as representatives of these groups are obtainable in the locality where the course is given. The types suggested are a mammal, bird, lizard, snake, turtle, newt, frog, dogfish or shark, bony fish, clam, snail, starfish, earthworm, planarian, hydra, sea-anemone, parameecium. In the case of arthropods, pupils should become familiar with common crustaceans, spiders, myriapods, and insects representing at least five orders. Actual examination of common animals with reference to the above points should be supplemented by reading giving natural-history information.

It is not expected that there will be time for making extensive

note-books on the natural-history work; rather will the work in this line take the form of laboratory demonstrations. So far as time permits, drawings and notes should be made. The note-book mentioned below should contain at least drawings on the external structure of four animals not studied under Section 3, preferably two insects, a mollusk, and a second vertebrate.

- 2. The classification of animals into phyla and leading classes (except the modern subdivisions of the worms) and the great characteristics of these groups. In the case of insects and vertebrates the characteristics of the prominent orders. The teaching of classification should be by practical work so as to train the pupil to recognize animals and to point out the chief taxonomic characteristics. The meaning of species, genera, and larger groups should be developed by constructive practical work with representatives of insect or vertebrate orders.
- 3. The general plan of external and internal structure, not the anatomical minutiæ, of one vertebrate (preferably frog or fish) in general comparison with human body; an arthropod (preferably a decapod); an annelid (earthworm or Nereis); a cœlenterate (hydroid, hydra or sea-anemone); a protozoön (aciliate, and amœba when possible). In place of any of above types not locally available there may be substituted a second vertebrate, an insect, a mollusk, or an echinoderm. Tissues, the study of which is recommended as optional, should be examined first with the unaided eye, in such a structure as frog's leg, and then with a microscope demonstrate the relations of cells and intercellular substance in epithelium and cartilage; and, if possible, in other tissues. The functions of the chief tissues and their positions in the body of a vertebrate should be pointed out.
- 4. (a) The general physiology of above types, involving the essentials of digestion, absorption, circulation (respiration), cell-metabor lism, secretion, excretion, and nervous functions. This should apply comparatively the essentials of elementary work in human physiology. Demonstrations and experiments, such as are suggested in high-school text-books on human physiology, should be introduced, or recalled if not previously well presented in elementary physiology, in connection with the discussion of the chief functions. As far as practicably structure and function should be studied together.
- (b) Comparison of the general life-processes in animals and plants (in connection with botany if zoölogy is first studied).
- 5. The very general features of a sexual reproduction of a protozoön (preferably *Paramæcium*); alteration of generations in hydroids; reproduction and regenerations of *Hydra*; the very general external features of embryological development in a fish or frog; and (optional) the general cellular nature (not centrosomes and the like) of germcells, fertilization and cell-division in developing eggs should, as far as possible, be demonstrated and briefly described. Also, the most

<sup>&</sup>lt;sup>1</sup> Topics marked "optional" are regarded as desirable for the best high-school zoology, but will not be required in examinations,

interesting features of development should be pointed out in the case of other animals studied.

- 6. The prominent evidences of relationship, suggesting evolution, within such groups as the decapods, the insects, and the vertebrates should be demonstrated. A few facts indicating the struggle for existence, adaptation to environment, variations of individuals, and man's selective influence should be pointed out; but the factors of evolution and the discussion of its theories should not be attempted.
- 7. (Optional) Some leading facts regarding the epoch-making discoveries of biological history and the careers of such eminent naturalists as Darwin, Huxley, Pasteur, and Agassiz should be presented.

The above outline of a course in general zoölogy should be developed on the basis of a course of laboratory study guided by definite directions. This should be supplemented by the careful reading of at least one modern elementary text-book in general zoölogy. At least two thirds of the time should be devoted to the practical studies of the laboratory. If good nature-studies have not preceded the course in high-school zoölogy, pupils should be encouraged to do supplementary work in the line of natural history. A note-book with carefully labelled outline drawings of the chief structures studied anatomically (Section 3), and the drawings mentioned under natural history (Section 1), and with notes on demonstrations and in explanation of drawings, with dates and an index, must be submitted, properly certified by the teacher, at the time of the examination. It will be graded as one third of the examination.

# Submission of Note-Books, Drawings, Etc.

In every case the work submitted must be duly certified by the teacher as the candidate's own work. Where note-books are presented, the indorsement should be written in ink on the inside cover. In the case of physics and chemistry note-books the indorsement should be in the following form.

I certify that this note-book is:	a true an	d original	record of	experi-
ments actually performed by				
in thelaboratory				
during the year 19	• • • • • • •			
	T			

The note-books required in botany, chemistry, physics and physiography must be submitted at the time of examination. Candidates desiring the return of these note-books should apply for them after the examinations in June to the Secretary of the College Entrance Examination Board; after the examinations in January and September to the Secretary of the University.

Drawings and elementary English exercise books, submitted in lieu of examination, or advanced history note-books and essays for

advanced English should be sent to the Secretary of the University at least two weeks before the examinations begin. Within ten days the candidates will be informed whether or not the work submitted has been accepted. Drawings and history note-books will be returned to their owners upon application at the office of the Secretary of the University. English exercise books and essays will not be returned to the writers.

#### REGISTRATION AND ENROLMENT

#### REGISTRATION

No student is permitted to attend any academic exercise until she has complied with the regulations in regard to registration and payment of fees. A matriculated student is one who has been accepted as a candidate for a degree by the properly constituted academic authorities. Students enrolled at Barnard College are not, necessarily, matriculated. Every student will be required, as a condition of admission, to furnish such personal information as the College may need for its records. The proper blank for this purpose will be provided by the Registrar's Office.

#### ENROLMENT FOR COURSES

New students, at the date of registration, are required to file a statement of the courses which the Dean has authorized them to pursue. Students already in college are required to give notice of their choice of elective courses for the ensuing half-year to the Dean, on or before Monday, September 10, 1906, and on or before Friday, February 1, 1907. Proper blanks for this purpose will be provided by the Registrar's Office.

Students should not confuse the filing of elective blanks with registration.

The office of the Registrar will be open for registration from Wednesday, September 19, to Tuesday, September 25, 1906, and on Friday, February 1, 1907. New students may register also on Wednesday, September 26, 1906, and on Saturday morning, February 2, 1907. Registration at a later date is permitted only to candidates who obtain the written consent of the Dean, satisfactory cause for the delay having been shown. Such permission, however, does not relieve the student from the payment of the fee of \$5 for late registration.

Students who are prevented, through no fault of their own, from completing their registration in due time, should file a provisional registration-record on or before the last day of registration, if they wish to avoid the payment of this additional fee.

Credit for attendance will date from September 26, 1906, or from February 4, 1907. All students will be held strictly accountable for absences incurred owing to enrolment at a later date.

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Every student who holds a scholarship or is receiving the benefit of free or reduced tuition must obtain from the Dean a certificate to that effect. This certificate must be handed to the Bursar at the time of registration.

#### LEAVE OF ABSENCE

The Dean may for reasons of weight grant a leave of absence to a student in good standing.

#### HONORABLE DISMISSAL

An honorable discharge shall always be granted by the Dean to any student of good standing, over twenty-one years of age, who may desire to withdraw, and, with the written assent of her parents or guardian, to a student under that age.

# GENERAL STATEMENT REGARDING FEES AND THE REGULA-TIONS GOVERNING THEIR PAYMENT

All fees are payable in advance at the Bursar's Office. Every student who fails to register within the limits of time fixed by the regulations of the University shall be permitted to register only with the consent of the Dean, and by the payment of an additional fee of \$5. Students who enter late are required to pay the full charge for tuition for the half-year in which they register.

Two stated examination-periods occur in each year, one at mid-year, and one at the close of the academic year. All other examinations are special examinations for which a fee of \$5 is charged. If a student is granted special examinations in a series of subjects under one permit from the Dean, a single fee shall cover them all.

The registration or matriculation fee must be paid at the time of entrance before an official record of a student's attendance can be noted. The annual fees for matriculated students are payable in equal instalments on or before the third Saturday of the academic year, and on or before the second Wednesday of the second half-year in each academic year.

Checks should be made payable to the order of Barnard College, and addressed to the office of the Bursar.

#### WITHDRAWAL

Students are requested in cases of withdrawal from the College during the academic year to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice is given.

#### FEES

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Required of all regular and matriculated special students who have been accepted as candidates for a degree.

This fee is paid but once and is never refunded. If an entrance examination fee is paid in September or in February, and the student is admitted within the twenty months following, the examination fee shall then be considered as meeting this requirement.		
For Registration  Required of all non-matriculated students entering for the first time. If a non-matriculated student is later accepted as a candidate for a degree, this registration fee shall then be considered the same as a matriculation fee.	\$5	00
For tuition for the degree, for each half-year.  Students not candidates for a degree are charged at the rate of \$7.50 a half-year for each hour of attendance per week on lectures or recitations, with a maximum fee of \$75 for each half-year.  In estimating a fee in laboratory work, two hours are counted as one.	75	00
For examinations for the degree	15	00
and final-examination periods	5	00
Botany (Courses 51, 52, 53, 54, 55, 56), each course (Courses 153, 154, 156, 158, 159, 160, 161, 162),	ı	25
each course		50
Chemistry (Courses 5, 6), each course		50
" (Courses 63, 64), each course		00
" (Courses 43, 44, 105, 106, 145, 146) each course,		00
Zoölogy (Courses 1a, 2a, 1b, 2b), each course.  Should Course 1b be taken in connection with Course  1a, or Course 2b be taken in connection with Course  2a or Course 102, the one fee covers both courses.	2	50
Zoölogy (Courses 4, 5), each course		25
(Courses 101, 102, 151, 152, 153, 154), each course.		50
For the use of the gymnasium	7	00

#### ESTIMATED NECESSARY EXPENSES

Board, \$9 to \$17 a week.

Matriculation fee, \$5.

Annual tuition fee, \$150.

Gymnasium fee, \$7.

Text-books, from \$10 to \$20 each year.

Final examination for the degree, \$15.

The total necessary expenses for a student for the academic year are believed to average about \$18 a week.

#### DORMITORY

From October, 1898, to June, 1902, Fiske Hall was used as a residence for students. This building was given by Mrs. Martha T. Fiske-Collord for a Hall of Science, and was only temporarily used as a dormitory.

The rapid growth of the student body forced the Trustees to remodel the building according to the original plan. It was therefore discontinued as a dormitory after July 1, 1902, and was remodelled into laboratories and lecture-rooms. The Trustees have recently received a gift which enables them to enter upon immediate construction of a new hall of residence which will be ready for occupancy in September of 1907.

In the meantime, under the sanction and with the coöperation of the Trustees, the Associate Alumnæ will open a hall of residence for students in September, 1906.

For this purpose they have taken a section of Marimpol Court, a new apartment house, situated at 515 West 122d Street, on high ground overlooking the Hudson and two and a half short blocks from the College.

A competent mistress will be in charge. Rooms are completely furnished and properly cared for. They will be rented singly or en suite at a charge of from \$120 to \$425 a year. Board will be \$200 a year. The cost of residence, exclusive of tuition, is therefore \$320 and upward.

Circulars containing details and plans may be had on application to the Secretary of Barnard College.

All students who do not live with adult relatives or in the Alumnæ Dormitory must have the approval of the Dean to their arrangements for residence.

#### THE PROGRAM OF STUDIES

Upon completion of a curriculum arranged on one of the plans to be described below, the student is recommended by the Faculty of Barnard College for the degree of Bachelor of Arts or Bachelor of Science.

The principles of the program of studies are as follows:

1. The requirement for graduation is 124 points, the term "point" signifying the satisfactory completion of work requiring attendance one hour a week for one half-year.

2. Studies are either "prescribed," i. e., obligatory upon all candidates for a degree; or "elective," i. e., to be taken (though with certain restrictions) at the pleasure of the student.

3. Prescribed studies, with the exception of Economics A, must be taken as far as practicable during the first two years of residence; and subjects taken in college which are continuations of subjects offered at entrance must be taken as far as possible in the first year.

4. Other courses than those specified under each half-year may be

taken by students qualified to pursue them with advantage, but in every case only with the consent of the Dean.

- 5. No combination of courses amounting to less than 12 or more than 16 points may be made in any half-year without the consent of the Dean.
- 6. No 1-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed.
- 7. No more than four hours of work, exclusive of laboratory work, may be taken on the same day.
- 8. At least 18 points, exclusive of prescribed work, must be made under some one department before graduation.
- 9. Admission to courses depends strictly upon completion of the prerequisites as stated for each course separately. Where no prerequisite is stated the course may be taken and counted for a degree by any student of the College.
- ro. To be recommended for a degree, a student must have made at least 84 points in actual college residence, and of these at least 24 in Barnard College. (The Faculty has power to suspend this rule in individual cases; but a Statute of the University forbids the granting of a degree to any person who has not been a member of the University for a full academic year, *i. e.*, two half-years.)
- vithin six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from similar matriculation as a junior; and within one and a half years from matriculation as a senior. If the candidate fails to satisfy the requirements within the time as here specified, she shall lose credit for all the points gained by her towards the degree, unless, in individual cases properly attested, the Faculty shall otherwise direct.
- 12. No extension courses, taken either at Columbia or elsewhere, shall be credited towards a degree.
- 13. Change of electives will be allowed by the Dean, for reasons of weight stated to her in writing, during but not later than the first two weeks of each half-year.

Before final choice of elective studies, all students should consult the Dean, and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan, not merely at random. Conflicts between courses falling at the same hours are to be avoided by careful study of the Scheme of Attendance (see pp. 88–91), which has been drawn up with a view to making possible for every one the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections

can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the regulation that 18 points, exclusive of prescribed work, must be made in some one department.

# I THE PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

The prescribed courses are as follows:		
English A (unless Advanced English is offered for ad-		
mission)	6	nointa
English B	- 6	points
French A and German A (unless their equivalents are	0	
offered for admission)		6.6
History A (unless Advanced History is offered for ad-	I 2	••
mission)		4.6
Latin A or B (unless Advanced Latin is offered for admis-	6	••
sion)	_	
sion)	6	6.6
offered for admission)		
offered for admission)	6	6.6
Physical Education A and B	6	4.6
Physical Education A and B	4	6.6
Economics A.  Chemistry F. 6 on Physics	3	6.6
Chemistry 5-6 or Physics 11-12 (unless one of these		
subjects is offered for admission)	6	6.6
Botany, Chemistry, Geology, Physics, Psychology (Ex-		
perimental), or Zoölogy: two half-year courses in		
addition to the foregoing requirement in Physics or		
Chemistry	6	6.6
Major subject of	18	66
Free electives to complete the total of	124	6.6
II WITE PROCEETS OF STREET		
II THE PROGRAM OF STUDIES FOR THE DEGREE O BACHELOR OF SCIENCE	F	
The prescribed courses are as follows:		
English A (unless Advanced English is offered for ad-		
mission)	6	points
English B	6	6.6
French A and German A (unless their equivalents are		
offered for admission	Ι2	6.6
History A (unless Advanced History is offered for ad-		
mission	6	6.6
Mathematics A (unless Advanced Mathematics is offered	· ·	
for admission)	6	6 6
Philosophy A	6	6.6
Physical Education A and B		6.6
Grouped work in Astronomy, Botany, Chemistry, Geog-	4	
raphy, Geology, Mineralogy, Physics, Experimental		
1 77 Cooks, Limitalogy, 1 mysics, Experimental		

# III OPTIONS IN THE PROFESSIONAL SCHOOLS FOR CANDIDATES FOR A BARNARD COLLEGE DEGREE

Students of Barnard College may plan their work in such a way as to earn a professional diploma from Teachers College together with their academic degree from Barnard College. Students who have completed in Barnard College 94 points of work, including all prescribed courses, and who have attained a high grade of scholarship, may, with the permission of the Dean of Barnard College and the Dean of Teachers College, transfer to Teachers College, and become candidates also for the bachelor's diploma in teaching. Students so transferred will be recommended for their prospective degrees by the Faculty of Barnard College, on its receipt of a statement from the Faculty of Teachers College of their satisfactory completion of the requirements for a bachelor's diploma. These requirements, including in every case Education A and B, vary in quantity according to the major subject chosen and according to the nature of its prerequisites. the Announcement of Teachers College.) The major subjects in teaching in grammar grades, and in teaching biology, English, French, geography, German, Greek, history, Latin, mathematics, or physical science in secondary schools, each have a requirement of not more than 18 points, in addition to Education A and B (12 points) and their academic prerequisites of from 18 to 24 points. If Education A and all but six points of these academic prerequisites are completed before transferring to Teachers College, the requirements for the diploma, and therefore for the degree, may be completed in a single additional year of not less than 30 points, or in a total of four average years of work. Major subjects other than those mentioned above require a longer time, except under the conditions described below.

# COLLEGIATE INSTRUCTION OF CANDIDATES FOR A PROFESSIONAL DEGREE IN TEACHERS COLLEGE

Students may also, with the permission of the Dean of Barnard College and the Dean of Teachers College, transfer to Teachers College after the satisfactory completion of 60 points of work in Barnard College. The satisfactory completion in Teachers College of 60 points in addition, including Education A and B and any major subject with its prerequisites, will earn from Teachers College both the bachelor's diploma in teaching and the degree of Bachelor of Science. Students who enter Barnard College with the intention of thus transferring to Teachers College after the completion of 60 points of work, will be received into the freshman year of Barnard College on fulfilling the conditions

hitherto required for admission to the freshman year of Teachers College: namely—the presentation of a certificate of having satisfactorily passed the examinations prescribed for admission to the undergraduate colleges of Columbia University, or an Academic Diploma from the Regents of the University of the State of New York; offering 3 entrance points in English, 3 in mathematics, 4 in ancient or modern foreign languages, and 5 in history, foreign languages, mathematics or the natural sciences. (See the circular of Entrance Examinations for Columbia University.) Such students must include in the 60 points taken in Barnard College all of the collegiate courses required for admission to the professional curriculum in Teachers College: namely—two courses in English, one in language and one in literature; two courses in modern foreign languages, preferable French and German; one course in history, and two courses chosen from such natural sciences as were not offered for entrance. Such students should also seek advice concerning electives from the professors in charge of their prospective major subjects in Teachers College.

In consequence of the agreement on the part of Barnard College to provide the collegiate courses required by Teachers College for admission to its professional curriculum, Teachers College has withdrawn its collegiate curriculum, receiving no freshmen after 1905 and no sophomores after 1906, and will accept for entrance into its professional curriculum, by transfer without examination, students who have satisfactorily completed in Barnard College 60 points of work, including the courses listed above.

#### ADDITIONAL CREDIT FOR HIGH STANDING

At the end of every half-year, when all the reports are filed in the Registrar's Office, additional credit for high standing is given as follows:

The mark A in any two courses (no course to be counted twice) entitles the student to one point of extra credit, provided she has not fallen below the mark B in any of the courses pursued by her during the half-year.

Any student who is credited with 94 points (including all prescribed work) may receive one point of extra credit for each of two courses chosen from among those offered by any single department as counting toward a higher degree, provided the quality of her work in such course be tested by an essay for which a mark of A or B is given, in addition to the stated examinations. No student may receive more than one point of extra credit in one half-year under the terms of this rule.

#### **EXAMINATIONS IN COURSE**

Two examinations of all the classes are held every year, one beginning on the last Wednesday but one of the first half-year (January 23,

<sup>&</sup>lt;sup>1</sup>I. e., Master of Arts or Doctor of Philosophy. Such courses are those offered under the Faculty of Political Science, the Faculty of Philosophy, or the Faculty of Pure Science primarily for graduate students, but open also to advanced undergraduates.

1907), and the other on the Wednesday of the third week preceding Commencement (May 22, 1907). These are, and they are the only, stated examinations.

All students, except seniors, who shall have been absent from more than one tenth of the exercises in any course during a single half-year shall not be entitled to attend the stated examination in that course. Each instance of tardiness shall be counted as half an absence.

Should a student not exceed the limit of absence allowed, no explanation of any of her absences is required; should a junior or a sophomore exceed the limit allowed in any course, she shall be debarred from the stated examination in that course, and may attend it only by consent of the Dean, given after written explanation to her of all absences in excess of one tenth of the number of exercises in the course; should a freshman or a special student exceed the limit allowed in any course, she shall be debarred from the stated examination in that course, and may attend it only by consent of the Dean, given after written explanation to her of every absence.

Every student is expected and required to keep an account of her absences, and any satisfactory explanation of them must be from records made at the times of their occurrence, and for dates noted by the student herself and not obtained by her from the instructor in charge

Delinquent examinations, as defined in a subsequent paragraph, and examinations held by special permission of the Dean are special examinations.

The fee for a special examination is \$5, which must be paid by the student before being admitted to the examination. If a student has special examinations in more than one subject granted her under one permit from the Dean, a single fee of \$5 shall cover them all.

Delinquent examinations, to enable deficient and debarred students of all classes to make good their deficiencies, are held within the two weeks immediately preceding the opening of the College in the fall; and in addition, for members of the senior class only, during the first week in May.

Except as provided for in the foregoing paragraph on delinquent examinations, a student found deficient at a stated examination will not be allowed a special examination in that subject.

Except as provided for in the paragraph on delinquent examinations, a student absent from a stated examination in any subject will be allowed a special examination in that subject only when the absence was due to unavoidable circumstances. In that case the Dean may, on proper written certification to her of the circumstances, grant a special examination.

#### **ADVANCEMENT**

At the close of every half-year, and after the stated examination has been held, each officer of instruction shall report to the Dean a list of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure.

A student who receives a mark of F in any prescribed course must repeat that course. A student who receives a mark of F in any course not prescribed may present herself for reëxamination at the time fixed for the delinquent examinations; on passing such examination she shall receive only a mark of D. In either case, however, if the mark of F was given by reason of absence from examination resulting from illness or other unavoidable cause, she may be examined by permission of the Dean and marked as though she had attended the regular examination.

In any half-year not more than one course, whether prescribed or elective, in which the student is marked D, may be counted toward a degree. Of several courses in which she is marked D she may choose the one to be so counted. In all cases the requirements as to prerequisites must be completed before the beginning of the academic year.

No student may be advanced from the freshman to the sophomore class until she shall (a) have satisfied all the requirements for entrance, and (b) have not less than 18 points to her credit.

No student may be advanced from the sophomore to the junior class until she shall have not less than 48 points to her credit.

No student may be advanced from the junior to the senior class until she shall have accomplished all the studies of the course specifically required in the first three years, and have not less than 90 points to her credit.

A student dropped from the roll of her class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but she may enter the next succeeding class and pursue the course or courses in which her deficiency exists, or, in case of elective courses and with the consent of the Dean, other course or courses equivalent thereto in time, and present herself for examination in such course or courses with that class. No student dropped from the roll of her class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, she shall be dropped from the roll of the college, unless, for reasons of weight, the Dean shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

#### **SCHOLARSHIPS**

Number and Value.—There are altogether forty-one scholarships and three special funds for the aid of needy and deserving students. The value of each of these scholarships, unless otherwise stated, is \$150 annually, which sum is applicable to the fees of the year. Under

certain circumstances those scholarships known as Student Scholarships may be divided between two applicants.

CHARACTER.—The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations on the nomination of the Committee on Admissions. The latter are awarded by the Committee of the Trustees on Scholarships, on the nomination of the corresponding Committee of the Faculty, to worthy students who have passed at least one year in college. They are held, unless otherwise stated, for one year only.

Conditions.—Two scholarships may not be held by the same person. Should two scholarships be assigned to the same student in one year, she must at once make choice as to which she will retain. If a student fail to maintain a grade of at least C in all courses which she pursues, or if she commit a breach of good order, she shall forfeit her scholarship and, in the case of non-competitive scholarships, shall be ineligible for reelection the following year.

APPLICATION.—Before the first of April of each year all applications for non-competitive scholarships, accompanied with full credentials, must be filed at the Dean's office upon special blanks to be obtained there. Candidates for the competitive scholarships to be awarded on the basis of the June examinations should, when filing an application with the Secretary of the College Entrance Examination Board (see p. 19), notify the Secretary of that Board for which one of the Barnard College Scholarships they are competing.

#### COMPETITIVE SCHOLARSHIPS

These, subject to the foregoing general regulations for scholarships, are as follows:

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are as follows:	
1. Open to all Students:	
Trustees' Competitive Scholarship	
Awarded annually by the Board of Trustees to the stu-	
dent who, in June, passes the best complete entrance ex-	
amination in all subjects. It may be held for one year	
only.	
Jessie Kaufmann Scholarship	
Established in 1902 by Mr. Julius Kaufmann in memory	
of his daughter, Jessie Kaufmann. The annual income	
from \$4000 is awarded on the merits of the entrance ex-	

of his daughter, Jessie Kaufmann. The annual income from \$4000 is awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

2. Open to Particular Students:

received their training in either the public or the private schools of Brooklyn, N. Y., and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June, without conditions, the best complete entrance examinations in all subjects. They may be held for the entire college course, but a holder, while retaining the title "Brooklyn Scholar," may transfer the income to any properly qualified candidate from Brooklyn without having her action made a matter of public record.

Lucille Pulitzer Scholarships.....

Founded by Mr. Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to undergraduate students entering the College from the city of New York who are found to have passed excellent entrance examinations and to be worthy of financial aid. They may be held for the first three years of the college course only.

The first, (a) founded in 1899, is the income of \$10,000, and will be awarded in 1906, 1909, and corresponding years. The second and third, given in 1903, represent each one half the income of \$15,000; (b) will be awarded in 1907 and 1910, (c) in 1908 and 1911, and corresponding years.

#### NON-COMPETITIVE SCHOLARSHIPS

These, subject to the general regulations for scholarships, are as follows:

I.	Open	to all	Stua	ents:
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Given by the Committee of the Trustees on Scholarships. They are supported by the income of a permanent fund that is being established and that at present amounts to \$9680 and of the Arthur Brooks Fund (see below). The remainder is supplied by annual provision.

College during the first five years of its existence.

Veltin School Scholarship.....

Founded in 1905 by the alumnæ of Mlle. Veltin's School.

Jennie B. Clarkson Scholarship......

Founded in 1898 by Mrs. W. R. Clarkson.

Emily James Smith Scholarship.....

Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College. It is awarded in conference with the founder.

Anna E. Barnard Scholarship	
Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded in conference with	
the founder.	
Brearley School Scholarship	
Eliza Taylor Chisholm Memorial Scholarship	:
Graham School Scholarship	
Keller School Scholarship	]
2. Open to Particular Students:  Mrs. Donald McLean Scholarship  Founded in 1906 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in con-	3
ference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.	
Emma Hertzog Scholarship	1
Mrs. Henry Clarke Coe Scholarship	1
3. Special Funds for the Aid of Needy and Deserving Students: Arthur Brooks Fund. A fund of \$5000 given in 1897 by Miss Olivia E. Phelps	
Stokes as a memorial of the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. This fund is at present applied to the maintenance of the Student Scholarships.	
Fiske Scholarship Fund.  A fund of \$5000, given by Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.	

George W. Smith Scholarship Fund.

A fund of \$5000 given in 1906 by Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

#### **PRIZES**

GENERAL CHARACTER AND REGULATIONS.—The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

#### HERRMAN BOTANICAL PRIZE

A prize of \$50, founded by Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

#### KOHN MATHEMATICAL PRIZE

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

#### THE BUNNER MEDAL

The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1906, is "Thomas Jefferson as a Man of Letters"; for 1907, "The Hartford Wits."

#### HONORS

Honors are of two kinds, departmental and general honors.

Departmental honors will be granted in any year in any department for high excellence in courses of that department. Such excellence shall be indicated by the grade of A obtained in courses aggregating at least six points and by the satisfactory performance of additional work set by the department. Students must announce their candidacy to the head of the department not later than April 1 of the year of candidacy.

Except by special decision of the Committee on Honors, no student falling below C in any of the courses taken by her during the year of candidacy will receive honors.

A student who has won honors in any department successively

during the last three years of her college residence shall be granted at graduation highest final honors in said department.

General honors will be granted at the end of every college year to students who during the said year have obtained grade A in the majority of the courses taken by them, provided they have not fallen below grade B in any course in said year.

Highest final general honors will be granted at graduation to all students who have obtained grade A in the majority of the courses taken by them during the last three years of college residence provided they have not fallen below grade B in any course in said years.

#### THE UNIVERSITY LIBRARY

The University Library is open each week-day (except Thanksgiving, Christmas, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October-June; and until 10 P.M., July-September. All officers, students, and graduates of all departments of the University have free access to the Library and may draw books for home use.

About 10,000 carefully selected reference books and the most important works on all subjects, in standard editions, representing the leading authors in all literatures, are placed in the general reading-room directly accessible to all readers.

The Library contains about 380,000 volumes, exclusive of unbound pamphlets and duplicates, and some 30,000 German dissertations.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to readers.

#### CHAPEL SERVICE

Chapel service is held on Tuesday and Friday of each week at ten minutes past twelve in the college assembly-room. The service lasts about twenty minutes and is usually conducted by some clergyman of the city or by some officer of the University. Attendance is entirely voluntary.

# STATISTICS

The following tabular statement indicates the growth of the College from its foundation:

	1889 to 1890	1890 to 1891	1891 to 1892	1892 to 1893	1893 to 1894	1894 to 1895	1895 to 1896	1896 to 1897	1897 to 1898	1898 to 1899	1899 to 1900	1900 to 1901	1901 to 1902	1902 to 1903	1903 to 1904	1904 to 1905	1905 to 1906
UNDERGRADUATES: Seniors. Juniors. Sophomores. Freshmen (regular)	40I	· · ∞ r- 4		88 100 100 5.00 100 100 100 100 100 100 100 100 100	. 5000 ·	08 H 80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	118	22 21 2 21 2 21 2 2 2 2 2 2 2 2 2 2 2 2	9 9 9 9 9 9	4400 50 .	40 40 40 54 54	52 39 81	1247	042000	78 79 72 101	83 71 75 110	81 78 97 111
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MUSIC STUDENTS							:	24	50	37	41	37	43	50	41		: :
COLLEGESTIDENTS FROM COLUMBIA	:	:	:	:	:	:	:	:	7	∞	18	54	47	45	47	11	9 2
UNIVERSITY	:					•	•	:	•	•	:	29	45	41	51	62	14
	2.2	34	32	37	47	48	99	811	123	148	162	191	162	151	170	991	175
TOTAL REGISTRATION	36	53	62	88	901	011	147	203	234	279	333	384	431	445	500	505	542
Degrees Conferred: A.B.	::		::	∞ :	0.4	8 н	81	22	22	21	30	50 :	50	47	79	83 .	::
Ph.D			-	:	.	ı	:	:		7	ı	:	*	- 0		•	



#### DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses:

When an announced course has not been applied for by at least three candidates for a degree, the instructor may withdraw it.

Where the hours for laboratory work are not given either in the departmental statement or in the scheme of attendance, they must be arranged after consultation with the officer in charge of the course.

When courses are divided into sections, assignment is by alphabetical order; but for reasons of weight students may be transferred

from the assigned section by the Dean.

Prescribed courses are designated by capital letters. Elective courses are designated by numbers, odd numbers for the first half-year courses and even numbers for the second half-year courses. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 101 to 199 inclusive are given to courses open to both undergraduates and graduates; the lower numbers in each case being used for the introductory courses.

In the statement of each course the prerequisites are indicated, except that the equivalent of the first half of a hyphenated course (e. g., Anthropology 1-2) is always assumed to be a prerequisite for admission to the second half. When no department is named it is to be assumed that the reference is to a numbered course in the same

department.

Courses marked with an asterisk (\*) are given at Columbia University and, with the exception of courses in Music, are open only to seniors. Courses marked with a dagger (†) are given at Teachers College.

For more detailed information in regard to topics, text-books, or methods, in any particular course, students are referred to the instructors.

#### ANTHROPOLOGY

1-2—General introductory course. Professor Farrand and Dr. Wissler. 6 points.

M., W. and F. at I.

Open to Juniors and Seniors.

In the first half of this course a description of human races and of their distribution is given. The physical characters of the earliest human remains and their relations to present forms are discussed, and types of languages and their geographical distribution are described. In the second half of the year there is a discussion of the mental development of primitive man, followed by a description of types of primitive culture, and an inquiry into the origin and development of particular phases of culture.

\* 101-102—General Ethnography. Professor Boas. 4 points. W. and F. at 9.

\* 103-104—Prehistoric archæology. Professor Saville and Dr Berkey. 4 points.

M. and W. at II.

\* 105-106—Ethnology—Primitive Culture. Professor FARRAND. 4 points.

M. and W. at 3.

Prerequisite: Course 1-2.

[\* 107-108—Ethnography of America and Siberia. Professor Boas 2 points.

Not given in 1906-07.]

\* 111-112—Ethnography of China, with special reference to Farther India and Central Asia. Dr. Laufer. 4 points.

W. and F. at 3.

\* 113—Ethnography of Japan, Korea, and Formosa. Dr. LAUFER. 2 points.

W. at 4.

\* 115-116—Mexican archæology. Professor Saville. 4 points M. and W. at 10.

Prerequisite: Course 101-102, 103-104, or 105-106.

\* 117-118—American languages. Professor Boas. 4 points Tu. and Th. at 10.

\* 121-122—Anthropometry. Professor Boas.

Tu. and Th. at 9, and 3 hours of laboratory work.

Prerequisite: Mathematics 12 or its equivalent.

\* 125-126—Early Spanish sources for American Ethnography. Mr. Bandelier. 4 points.

Tu. and F. at 4.

\* 127—Archæology of Peru. Mr. BANDELIER. 1 point.

F. at 3.

\* 129-130—American languages. Advanced course. Professor Boas. 4 points.

Tu. and Th. at 11.

For fuller information regarding courses in the Department of Anthropology, students are referred to the Announcement of the Division of Philosophy, Psychology, an Anthropology.

#### **ASTRONOMY**

\* I-2—General Astronomy. Professor Poor. 4 points.

Tu. and Th. at II.

Prerequisite: Mathematics A1-A2 and Physics 11-12.

This course is historical and descriptive; intended for students who do not desire to specialize. The lectures are illustrated. The new Wilde observatory is open to students of Course 1-2 on the first Tuesday and third Thursday evenings of each month, for observation of planets, satellites, nebulæ, etc. This part of the course is in charge of Professor Jacoby

\* 103-104—Spherical and Practical Astronomy. Professor JACOBY.
2 lectures and 2 hours of observatory work. 6 points.

M. at 9 and Th. at 10.

Prerequisite: Astronomy 1-2 and Mathematics 21.

The hours of Course 103-104 may be changed if students electing the subject so desire.

This course covers a more mathematical treatment of the subject including the practical use of instruments. It is intended for students desiring a working knowledge of astronomy.

For fuller information regarding courses in the Department of Astronomy, student are referred to the Announcement of the Division of Mathematical and Physical Science

#### BIBLICAL LITERATURE

† 1-2—Literature of the Old Testament. Dr. Hodge. 4 points. W. and F. at 4.

#### **BOTANY**

51-52—Principles of the Morphology and Physiology of Plants. Professor Richards, Miss Latham, and Miss Thompson. 5 hours. lectures, demonstrations, and laboratory work. 6 points.

Lectures M. and F. at 9. Demonstrations W. at 9.

Laboratory fee, \$2.50.

53-54—General Morphology and Development of Plants, Study of Types. Dr. HAZEN. 2 lectures, 4 or 6 hours of laboratory work, 8 or 10 points.

Tu. and Th. at 10.

Laboratory fee, \$2.50.

Course 53-54 is not open to freshmen. It should ordinarily be preceded by 51-52 but is open, on consultation with the instructor, to students of sufficient training who also either attend the lectures 51-52 or elect the full 6 hours of laboratory work in Course 52-54

55-56—Morphology and Classification of Spermatophytes, Study of the Natural Orders. Dr. Hazen and Miss Thompson. I hour lecture or conference, 4 of 6 hours laboratory work. 6 or 8 points.

F. at 11.

Laboratory fee, \$2.50.

Prerequisite: Course 51-52 or Entrance Botany.

153—Anatomy of Vascular Plants. Professor Richards and Miss Latham. 2 lectures and a minimum of 6 hours of laboratory work, 5 points.

Tu. and Th. at 9.

Laboratory fee, \$2.50.

Prerequisite: Course 53-54

[154—Physiology of Plants from Standpoint of Nutrition. Professor Richards. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Laboratory fee, \$2.50.

Prerequisite: Course 153 and some knowledge of chemistry.

Not given in 1906-1907.]

Courses 154 and 156 are given in alternate second half-years.

156—Physiology of Plants from Standpoint of Growth. Professor

RICHARDS and Miss LATHAM. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Tu. and Th. at 9.

Laboratory fee, \$2.50.

Prerequisite: Course 153 and some knowledge of chemistry.

Courses 153, 154, and 156 are open to students only after consultation with the instructor.

158—Structure and Development of Algæ. Advanced course. Prefessor Richards and Dr. Hazen. 1 lecture and 6 hours of laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Courses 51-52 and 53-54.

159—Structure and Development of Fungi. Advanced course. Professor Richards. 1 lecture and 6 hours of laboratory work. 4 points Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Courses 51-52 and 53-54.

Courses 158 and 159 are given either the first or second half-year to suit the convenience of the instructor and students. The two courses will not usually be given the same year.

160—Developmental Anatomy. Practice in methods of technique. Professor RICHARDS. 8 hours of laboratory work with occasional lectures and outside reading. 4 points.

Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Course 153; parallel: Course 154 or 156.

This course may be given in the first or in the second half-year.

161-162—Advanced Physiology and Morphology. Professor Richards and Dr. Hazen.

Work will be arranged to suit the needs of the students, and credit will be given according to the amount accomplished. Open to students only after consultation with the instructors.

Laboratory fee, \$2.50 for each half-year.

#### CHEMISTRY

Students are requested to elect courses in the following order: 5-6, 63, 64, 41-4:, 43-44.

5-6—General Inorganic Chemistry. Dr. Reimer, Miss Keller, and Miss Reynolds. 5 hours, including lectures, discussions, and laboratory work. 6 points.

M., W. and F. at 11.

Laboratory fee, \$5.

41-42—Organic Chemistry, Elementary Lecture Course. Dr. Rei-MER. 2 lectures. 4 points.

Hours to be arranged.

Prerequisite: Course 5-6. It is urged that Course 43-44 be taken with this course.

43-44—Organic Chemistry, Elementary Laboratory Course. Dr. Reimer. 8 hours. 8 points.

Hours to be arranged.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 41-42. Recommended as a parallel to Course 41-42.

This course is designed to teach the student the important methods of preparation of organic compounds.

A special laboratory course of 4 hours a week counting as 4 points is offered, after consultation with the ins ructor.

63—Qualitative Analysis. Miss Keller. 3 lectures and 8 hours of laboratory work. 7 points.

Hours to be arranged.

Laboratory fee, \$6.

Prerequisite: Course 5-6.

64—Quantitative Analysis. Miss Keller. 3 lectures and 8 hours of laboratory work. 7 points.

Hours to be arranged.

Laboratory fee, \$6.

Prerequisite: Courses 5-6 and 63.

The lecture work of Courses 63 and 64 consists of two hours a week devoted to the general chemistry of the subject, and one hour to elementary theoretical chemistry.

105-106-Inorganic Chemistry, Advanced Course. Miss Keller.

3 lectures and 6 hours of laboratory work. 12 points.

Hours to be arranged.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 63, 64, and Physics 11-12.

This course is designed to supplement Courses 63 and 64. The lectures will be devoted to a detailed discussion of the elements, including the rare elements, and advanced theoretical chemistry. The laboratory work will consist of practice in preparation of inorganic compounds, mineral analyses, and physical-chemical measurements.

145-146—Organic Chemistry, Advanced Course. Dr. Reimer. 3 lectures and 6 hours of laboratory work. 12 points.

Hours to be arranged.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 41-42, 43-44.

This course is designed to supplement Courses 41-42 and 43-44. It is a more comprehensive discussion of the most important classes of organic compounds and their relations to each other. Special emphasis will be given to recent theories as to the structure of the compounds and the mechanism of their reactions. The laboratory work consists of the preparation of organic compounds discussed in the lectures and the study of their reactions.

In the second half-year, some special problem is assigned to each student.

# Journal Club. Dr. Reimer and Miss Keller. I hour.

The advanced students and the instructors meet for reports and discussion on recent scientific papers.

## ECONOMICS AND SOCIAL SCIENCE

#### **Economics**

A—Outlines of Economics. Study of the characteristics of modern industrial society and of the fundamental economic principles. Professor Moore and Dr. Whitaker. First half-year. 3 points.

Section I, M. and W. at 9 and F. at 2; Section II, M., W., and F. at 2.

Prescribed for Juniors. Open to qualified Sophomores who take Course 4.

4—Economic History of England and the United States, with constant attention to the evolution of present economic conditions and the rise of current social problems. Professor Moore and Dr. Whitaker. 3 points.

M., W., and F. at 2. Prerequisite: Course A.

105—The Labor Problem. Professor SEAGER. 2 points.

Tu. and Th. at 1.

Prerequisite: Course A.

rog—Communistic and Socialistic Theories. Professor CLARK. 2 points.

Tu. and Th. at 11.

Prerequisite: Course A.

110—Theories of Social Reform. Professor CLARK. 2 points.

Tu. and Th. at 11.
Prerequisite: Course A.

120—Practical Economics. Professor Seager. 2 points.

Tu. and Th. at 1.

Prerequisite: Course A.

The topics discussed in this course include money, banking, taxation, government expenditures, foreign trade, monopolies and trusts, and the legal regulation of industries.

121—English Social Reformers. Professor Moore. 2 points.

W. and F. at 1.

Prerequisite: Course A.

The Recent Development of Economics in England, with a critical study of Marshall's Principles of Economics. Professor Moore. 2 points.

W. and F. at 1.

Prerequisite: Course A

## Sociology

\* 151-152—Principles of Sociology. Professor Giddings. 4 points. Tu. and Th. at 3.

Prerequisite: Economics A.

[153-154—Family Organization. Field work in the study of family groups. Study of the sacred law codes. Consultations. 2 points.

Prerequisite or parallel: Course 151-152.

In connection with the lectures and field work of this course opportunities are given to students to become acquainted with the more important private institutions for social betterment in New York City, and to study the organization and activity of the various public agencies charged with the welfare of the community.

Not given in 1906-1907.]

#### **EDUCATION**

The following courses in Education and related subjects are open in Teachers College, the Division of Education of Columbia University, as electives for students of Barnard College. Detailed information with regard to these courses will be found in the current edition of the Announcement of Teachers College, which can be obtained, without charge, upon application to the Secretary of the College.

Other courses in Teachers College are open only to candidates for its diplomas in teaching. The way in which such candidacy may be combined with candidacy for a degree in Barnard College, is described on page 50.

Education A is prerequisite to all courses in education. Education B must be taken parallel with other courses in the senior year.

† A(b and c)—Educational Psychology. Professor Thorndike and Dr. Norsworthy. 4 points.

In A(c), the class will meet together on M. at 4 throughout the year; in A(b) in sections during the second half-year as follows:

(I, II) M., W., and F. at 10, open to candidates for the Bachelor's diploma with a major subject in kindergarten and elementary teaching and supervision, and in secondary teaching.

(III and IV) M., W., and F. at 11, for candidates for the Bachelor's diploma with a major subject in domestic science or manual training.

(V and VI) M., W., and F. at 2, for candidates with a major subject in nature-study, music, and physical education.

(VII and VIII) W. and F. at 4, for candidates with a major subject in domestic art, domestic art and science, fine arts, and others who obtain the consent of the instructor.

Attendance on the Monday section hour, a conference, is optional.

† B—History and Principles of Education. Professor Monroe and assistants. 6 points.

Tu. and Th. at 3 and a third hour in sections.

- (I) F. at 9 for candidates for a Bachelor's diploma with a major subject in secondary teaching.
- (II) F. at 11 for candidates for a Bachelor's diploma with a major subject in domestic art or domestic science.
- (III) S. at 9 for candidates for a Bachelor's diploma with a major subject in elementary or kindergarten teaching or supervision in physical education or in nature-study.
- (IV) S. at 11 for candidates for a Bachelor's diploma with a major subject in fine arts, music, or manual training.
  - (V) F. at 2 for students who obtain the consent of the instructor.

† 2—Logic as applied to problems of teaching. Professor Dewey. 2 points.

Tu. and Th. at 5.

† 5-6-Modern Educational Theory. Professor MacVannel. 4 points.

Tu. and Th. at 2.

† 21-22—Child Study. Dr. Norsworthy. 4 points. Tu. and Th. at 4.

†87—Personal Hygiene. Professor Wood. 2 points. M. and W. at 11.

† 121-122—Genetic Psychology. Professor Thorndike. 4 points. M. and W. at 11.

# **ENGLISH**

AI-A2—English Literature and Composition. Professor Brewster, Mr. Tassin, Mr. Westcott, and Miss Haskell. 6 points.

Tu. Th., and S. at 10.

Prescribed for Freshmen.

The first term will deal with English composition, the second with English literature. Students who enter college at the opening of the second term may take the literature at once and the composition the following fall, or, if circumstances warrant the forming of a separate section, at the same time as the literature.

BI-B2—English Literature and Composition. Mr. PARKER, Mr. WESTCOTT, and Miss HASKELL. 6 points.

Tu. and Th. at 1 and a third hour to be arranged.

Prerequisite: Course A1-A2.

Prescribed for Sophomores.

As in Course A1-A2, the work of the first term is to be regarded as independent of that of the second.

1-2-English Composition. Professor Brewster. 6 points.

Tu. and Th. at II and a third hour to be arranged.

Prerequisite: Course B1-B2.

With the permission of the instructor, this course may be taken in two successive years. The course may be elected or dropped at the end of the first term, but, except for very good reason, the second term may not be elected unless the student has passed at least once the work of the first half-year.

7-8—Elocution. Mr. Tassin. 3 hours. 4 points. M., W., and F. at 3.

11-12—Argumentation and Public Speaking. Mr. PARKER. 6 points.

Tu. and Th. at 3 and a third hour to be arranged.

Prerequisite: Course B1-B2.

[21-22—American Literature. Professor Trent. 4 points. Not given in 1906-07.]

23-24—English Literature and American Literature in the Nineteenth Century. Miss Hubbard. 6 points.

M., W., and F. at 10.

Course 23-24 is intended for Freshmen and Sophomores and should be taken before more advanced work in literature.

25-26—English Literature in the Seventeenth Century. Professor TRENT. 4 points.

M. and W. at 10.

Prerequisite: Course 21-22, or 23-24.

Courses 25-26 and 27-28 are given in alternate years.

[27-28—English Literature in the Eighteenth Century. Professor TRENT. 4 points.

Not given in 1906-07.]

29-30—English Literature of the Earlier Periods. Dr. KRAPP. 6 points.

M., W., and F. at 2.

Prerequisite: Course 21-22, or 23-24.

31-32—English Literature in the Sixteenth Century. Professor TRENT. 4 points.

M. and W. at II.

Prerequisite: Course 21-22, or 23-24.

35-36—Shakspere. Professor Thorndike. 4 points.

M. and W. at 11.

Prerequisite: Course 21-22, or 23-24.

37-38—English Prose exclusive of Fiction. Professor Brewster (first half-year) and Dr. Cunliffe (second half-year). 4 points for the year, or 2 points for each term.

Tu. and Th. at 9.

Prerequisite: Course B1-B2.

Courses 37-38 and 39-40 are given in alternate years.

[39-40—The Development of English Fiction. Professor Brewster. 4 points.

Not given in 1906-07.]

41-42—English Drama to the closing of the Theatres in 1642. Mr. Tassin and Dr. Cunliffe. 4 points for the year, or 2 points for each term.

Tu. and Th. at 2.

Prerequisite: Course B1-B2 and Course 21-22, or 23-24.

Courses 41-42 and 43-44 are given in alternate years.

[43-44—English Drama from 1642. Mr. Tassin. 4 points. Not given in 1906-07.]

[45-46—English Literary Criticism. Professor G. R. CARPENTER. 4 points.

Not given in 1906-07.]

† 55-56—Nineteenth Century Writers. Professor Baker. 6 points. M., W., and F., at 1.

With the consent of the Dean certain courses in the Graduate School are open to specially qualified Seniors.

#### FINE ARTS

† 3-4—Art Appreciation; History of Art. Professor Dow. 4 points. Tu., 4-5.30.

French. See Romance Languages and Literatures

## **GEOGRAPHY**

† 1-2—General Geography. Miss C. B. KIRCHWEY. Lectures and laboratory work. 6 points.

Tu. and Th., 9-11; S. at 9.

Laboratory fee, \$2.

Open to all undergraduate students.

#### **GEOLOGY**

ror-ro2—General Geology. Physical, dynamical, structural, and historical geology. Dr. Ogilvie. 2 lectures and 2 or 4 hours of laboratory and field work. 6 or 8 points.

Tu. and Th. at 10.

Prerequisite, desirable but not essential: Chemistry 5-6 and Zoölogy 1-2, and some knowledge of Mineralogy.

113—Summer Field Course. Dr. OGILVIE. 2 weeks in the field involving the subsequent preparation of a report. 4 points.

Time to be arranged.

Prerequisite: Course 101-102.

117-118—Glacial Geology and Advanced Physiography. Dr. Ogilvie. 1 lecture, with reading, field and laboratory work.

Work will be arranged to suit the needs of the students and credit will be given according to the amount accomplished.

Prerequisite: Course 101.

119-120—General Geology. Advanced Course. Dr. Ogilvie. Lectures, laboratory work, and readings. 4, 6, or 8 points.

Hours to be arranged.

Prerequisite: Course 101-102.

### GERMANIC LANGUAGES AND LITERATURES

A1-A2—Elementary Course. Dr. Periam and Mr. Bechert, 6 points. Section I, M., W., and F. at 10; Section II at 2.

Prescribed for Freshmen who did not present elementary entrance German.

1-2—Intermediate Course. Reading, Grammar, and Composition. Dr. Periam and Mr. Bechert. 6 points.

Section I, M., W., and F. at 9; Section II at 1.

Prerequisite: Course A1-A2, or elementary entrance German.

- I hour (Tu. at I or Th. at Io) of Course 3-4 may be elected by students taking Course I-2, which will then be counted as a 4 point course.
- 3-4—Composition and Colloquial Practice. Systematic drill in German syntax and idiom. Dr. Periam and Mr. Bechert. 4 points. Section I, Tu. at 1; Th. at 10; Section II, Tu. and Th. at 2. Prerequisite: Course A1-A2, or elementary entrance German.
- 5-6—Selected Works of Lessing, Goethe and Schiller. Texts, chiefly dramatic, and essays. Dr. Braun, Dr. Periam, and Mr. Bechert. 6 points.

Section I, M., W., and F. at 9; Sections II and III at 1.

Prerequisite: Course 1-2, or intermediate entrance German.

- I hour (Tu. at I or Th. at Io) of Course 3-4 may be elected by students taking Course 5-6, which will then be counted as a 4 point course.
- 7—Historical Prose. First half-year. Selections from German historians, essayists, and critics. Dr. Braun. 2 points.

Tu. and Th. at 1.

Prerequisite: Course 1-2, or intermediate entrance German.

8—Historical Prose. Second half-year. Selections from German historians, essayists, and critics. Dr. Braun. 2 points.

Tu. and Th. at 1.

Prerequisite: Course 1-2, or intermediate entrance German.

**9—German Ballads and Folk-Songs.** First half-year. Readings, discussions, and themes, all in German. Dr. Braun and Mr. Bechert. 2 points.

Section I, Tu. and Th. at 1; Section II at 2.

Prerequisite: Course 3-4, 5-6, or 7-8.

ro—German Ballads and Folk-Songs. Second half-year. Readings, discussions, and themes, all in German. Dr. Braun and Mr. Bechert, points.

Section I, Tu. and Th. at 1; Section II at 2.

Prerequisite: Course 3-4, 5-6, or 7-8.

First half-year. Talks and themes, all in German, upon linguistic and literary topics. Mr. Heuser. 2 points.

Tu. and Th. at 1.

Prerequisite: Course 9-10, or its equivalent.

Practice in Speaking and Writing German. Advanced Course. Second half-year. Talks and themes, all in German, upon linguistic and literary topics. Mr. Heuser. 2 points.

Tu. and Th. at 1.

Prerequisite: Course 9-10, or its equivalent.

13-14-Selected Dramas of the 19th Century. Texts of representa-

tive dramatists, such as Kleist, Grillparzer, and Ludwig, reports and essays. Dr. Braun. 4 points.

Tu. and Th. at 9.

Prerequisite: Course 5-6.

[15-16—Geschichte der deutschen Litteratur im 19. Jahrhundert. Vorlesungen in deutscher Sprache. Dr. Braun. 4 points.

Prerequisite: Course 5-6, or 7-8.

Not given in 1906-07.]

17-18—History of German Literature from the earliest times to the 19th century. Lectures, themes, and readings from Müller's German Classics. Professor Thomas. 4 points.

Tu. and Th. at 11.

Prerequisite: Course 5-6, or 7-8.

19-20—Goethe's Faust; First and Second Parts. Lectures and recitations. Dr. Braun. 4 points.

M. and W. at 9.

Prerequisite: Course 5-6, or 7-8.

\* 105—German Drama in the Nineteenth Century. First half-year. Lectures. Professor Thomas. 2 points.

Tu. and Th. at 4.

Prerequisite: Course 17-18.

\* 106—Modern German Dramatists. Hauptmann and Sudermann. Second half-year. Lectures. Professor Tombo. 2 points.

Tu. and Th. at 4.

Prerequisite: Course 17-18.

\* 107-108—History of the German Language. Lectures and texts. Professor W. H. CARPENTER. 4 points.

M. and W. at r.

Prerequisite: Course 5-6, or 7-8.

\* 109-110-Old High German. Lectures and texts. Professor W. H. CARPENTER. 4 points.

Tu. and Th. at 2.

Prerequisite: Course 107-108.

Courses 109-110 and 115-116 are given in alternate years.

[\* III-II2—Middle High German. Linguistic Course. Lectures and texts. Professor Hervey. 4 points.

Prerequisite: Course 107-108.

Not given in 1906-07; given in 1907-08.]

Courses 111-112 and 113-114 are given in alternate years.

\* 113-114—Middle High German. Literary Course. Lectures and readings. Professor Hervey.

M. and W. at 2.

Prerequisite: Course 17-18.

[\* II5-II6—Old Saxon. Lectures and texts. Professor Tombo. 4 points.

Prerequisite: Course 107-108.

Not given in 1906-07; given in 1907-08.]

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\* 129-130—History of German Civilization. Lectures. Dr. RICHARD. 4 points.

Tu. and Th. at 11.

Prerequisite: Course 17-18.

\* 131-132—German Civilization in the Middle Ages. Lectures, themes, and readings from sources. Dr. Richard. 4 points.

Tu. and Th. at 1.

Prerequisite: Course 17-18.

\* 117-118-Swedish. Professor Thomas. 4 points.

W. and F. at ro.

Prerequisite: Course 5-6, or 7-8.

[\* 119-120—Danish. Professor Thomas. 4 points.

Prerequisite: Course 5-6, or 7-8.

Not given in 1906-07; given in 1907-08.]

[\* 121-122—Icelandic. Elementary course. Professor W. H. CAR-PENTER. 4 points.

Prerequisite: Course 107-108.

Not given in 1906-07; given in 1907-08.]

Courses 121-122 and 123-124 are given in alternate years.

\* 123-124—Icelandic. Advanced course. Professor W. H. CAR-PENTER. 4 points.

M. and W. at 3.

Prerequisite: Course 121-122.

[\* 125-126-Dutch. Professor W. H. CARPENTER. 4 points.

Prerequisite: Course 5-6, or 7-8.

Not given in 1906-07; given in 1908-09.]

\* 127-128—Gothic. Lectures and texts. Dr. Remy. 4 points.

M. and W. at 4.

Prerequisite: Course 107-108.

#### GREEK

(The three-hour courses will be largely linguistic, the two-hour courses mainly literary in character).

1-2—Elementary Course: Grammar, Composition, Xenophon's Anabasis, Homer's Iliad. Mr. Hoadley. 5 hours.

To be counted as 6 points by such students as subsequently pass either the entrance examination in Elementary Greek or an equivalent examination.

M., Tu., W., Th., and F. at 2.

Prerequisite: elementary entrance Latin.

This course may not be begun in the second half-year. It is designed for students who have entered without Greek but wish to include it in their course of study. Only those who are willing to work hard and unremittingly throughout the year will be admitted to the course. It is believed that such students will be qualified to enter Course 3 at the beginning of the following year.

3—Homer: the Odyssey (selections); lectures and readings in Greek life and thought. Dr. Shear. 3 points.

M., W., and F. at 10.

Prerequisite: Course 1-2, or elementary entrance Greek.

4—Euripides: Alcestis and Medea; lectures and readings in Greek life and thought. Dr. Shear. 3 points.

M., W., and F. at 10.

Prerequisite: Course 1-2, or elementary entrance Greek.

5—Plato: Apology, Crito, and Euthyphro. Miss Hirst. Greek prose composition weekly. Professor Knapp. 3 points.

M., W., and F. at 11.

Prerequisite: Course 1-2 or elementary entrance Greek.

6—Xenophon: Memorabilia; Greek prose composition weekly. Professor KNAPP. 3 points.

M., W., and F. at 11.

Prerequisite: Course 1-2 or elementary entrance Greek.

7—Sophocles: Antigone and Oedipus Tyrannus. Professor KNAPP 2 points.

Tu. and Th. at 2.

8—Aristophanes; Frogs and Clouds. Professor KNAPP. 2 points. Tu. and Th. at 2.

9—Herodotus (selections from Books VI, VII). Miss Hirst. 3 points.

M., W., and F. at 1.

ro—Demosthenes: Olynthiacs and Philippics. Miss Hirst. 3 points.

M., W., and F. at r.

11-12—Rapid Reading of Homer (selections from the Iliad and the Odyssey both). Mr. Hoadley. 4 points.

Tu. and Th. at 9.

[13-Plato: The Republic. Dr. SHEAR. 3 points.

Not given in 1906-07.]

[14—Lucian (selections). Professor Knapp. 3 points.

Not given in 1906-07.]

15—Aeschylus: Prometheus and Agamemnon. Dr. Shear. 3 points. M., W., and F. at 3.

**16—Thucydides** (selections from Books VI, VII). Dr. Shear. 3 points.

M., W., and F. at 3.

17-18—Greek Literature: lectures and required reading. Dr. Shear. 4 points.

Tu. and Th. at 2.

19-20—Intermediate Greek Prose Composition. Miss Hirst. 2 points.

Hour to be arranged.

21-22—Advanced Greek Prose Composition. Miss Hirst. 2 points. Tu. at 10.

23-24—Greek Life and Thought: lectures and readings. Dr. Shear, 2 points.

F. at 10.

This course constitutes the third hour of Course 3-4 and may be elected by any student taking any other course in the department.

#### HISTORY

A1-A2—Epochs of Ancient, Mediæval, and Modern History with special reference to forms of government and changes in social conditions. Professor Shotwell and Miss Huttmann. 6 points.

Section I, Tu., Th., and S. at 9; Section II, Tu., Th., and S. at 10. Prescribed for Sophomores, but may be taken as an elective by Freshmen.

This course is prerequisite to all the courses enumerated below.

3-4—Greece and Early Rome. Professor Botsford. 6 points.

M., W., and F. at 10.

Courses 3-4 and 5-6 are given in alternate years.

[5-6—The Roman Empire. Professor Botsford. 6 points.

Not given in 1906-07.]

[7-8—Mediæval and Modern History to the Peace of Westphalia. Professor Shotwell. 6 points.

This course covers practically the same period as Course 127-128, but treats different phases, viz., the political and social development.

Not given 1906-07.]

Courses 7-8 and 9-10 are given in alternate years.

9-10—Continental European History, modern and contemporaneous. Professor Shotwell. 6 points.

Tu. and Th. at 2, and Th. at 3.

11-12—A General Course in English History. Dr. BEARD. 6 points. Tu., Th., and S. at 10.

13-14—History of the United States to the Close of Reconstruction. Professor Shepherd. 6 points.

M., W., and F. at 11.

† 51-52—Typical Problems in American History. Professor Johnson. 4 points.

Hours to be arranged.

127-128—Intellectual History of Europe during the Middle Ages, Renaissance, and Protestant Revolution. Professor Robinson. 6 points.

Tu. and Th. at 3.

155-156—Constitutional History of England to 1689. Professor Osgood. 4 points.

Tu. and Th. at 2.

Courses 155-156 and 157-158 are given in alternate years.

[157-158—The History of England during the Eighteenth and Nineteenth Centuries. Professor Osgood. 4 points.

Not given in 1906-07.]

169-170—Political and Constitutional History of the United States Professor Shepherd. 4 points.

M. and W. at 2.

Italian. See Romance Languages and Literatures.

## LATIN

(The three-hour courses will be largely linguistic, the two-hour courses mainly literary in character.)

AI—Horace: Odes (selections). Professor KNAPP and Dr. SHEAR. Lectures and readings in Roman life and thought. Professor KNAPP. 3 points.

Sections I and II, Th. and S. at 9; Roman life, Tu. at 9.

Prescribed for Freshmen taking the A.B. course, unless they elect Course **B** or have offered Advanced Latin at entrance.

A2—Virgil: Eclogues; Ovid (selections). Professor KNAPP and Dr. Shear. Lectures and readings in Roman life and thought. Professor KNAPP. 3 points.

Sections I and II, Th. and S. at 9; Roman life, Tu. at 9.

Prerequisite: Course Ar.

Prescribed for Freshmen as above.

BI—Cicero: De Senectute and de Amicitia. Professor KNAPP and Mr. HOADLEY. Latin Prose composition weekly. Professor KNAPP. 3 points.

Sections I and II, M., W., and F. at 9.

Prescribed for Freshmen taking the A.B. course, unless they elect Course A or have offered Advanced Latin at entrance.

B2—Livy (selections from Books XXI, XXII). Professor KNAPP and Mr. HOADLEY. Latin prose composition weekly. Professor KNAPP. 3 points.

Sections I and II, M., W., and F. at 9.

Prerequisite: Course Br.

Prescribed for Freshmen as above.

I—Catullus, Tibullus, and Propertius. Miss Hirst. 2 points. Tu. and Th. at 11.

2—Juvenal and Martial. Mr. HOADLEY. 2 points.

Tu. and Th. at 11.

3-Pliny: Epistles (selections). Mr. HOADLEY. 3 points.

M., W., and F. at 10.

4—Tacitus: Annals (selections from Books I-VI). Miss Hirst. 3 points.

M., W., and F. at 10.

5—Terence: Andria and Phormio. Dr. Shear. 2 points. Tu. and Th. at 11.

6—Plautus: Rudens and Menæchmi. Dr. Shear. 2 points. Tu. and Th. at 11.

7—Cicero: Tusculan Disputations. Professor McCrea. 3 points.

M., W., and F. at 11.

8—Lucretius (selections). Professor McCrea. 3 points.

M., W., and F. at 11.

9-10—Latin Literature: lectures and required reading. Professor KNAPP. 4 points.

Tu. and Th. at II.

[11—Seneca: Tragedies. Professor KNAPP. 3 points.

Not given in 1906-07.]

[12—Cicero: Letters and Speeches (Cicero as a man and a statesman). Dr. Shear. 3 points.

Not given in 1906-07.]

13-14—Intermediate Latin Prose Composition. Miss Hirst. 2 points.

Th. at 3.

15-16—Advanced Latin Prose Composition. Miss Hirst. 2 points. Th. at 10.

17-18.—Roman Life and Thought: lectures and readings. Professor KNAPP. 2 points.

Tu. at 9.

This course constitutes the third hour of Course A1-A2, and may be elected by any student taking any other course under the department.

†51-52—Latin Readings. Professor Lodge. 6 points.

M., W., and F. at 10.

†101-102—Latin Readings, advanced. Professor Lodge. 4 points.

Tu. and Th. at 10.

# **MATHEMATICS**

AI-A2—Geometry; Algebra and Trigonometry. Solid geometry; algebra, including permutations and combinations, determinants, and logarithms; trigonometry, including the use of tables, the solution of triangles, and the important analytical formulæ. Professor Kasner and Dr. Bussey. 6 points.

Section I, M., W., and F. at 9; Section II, M., W., and F. at 10; Sections III and IV, Tu., Th., and S. at 9.

Prescribed for Freshmen that did not present advanced mathematics at entrance.

21—Analytical Geometry. Introduction to the analytical geometry of the plane and of space. Professor Kasner. 3 points.

M., W., and F. at 10.

Prerequisite: Course A1-A2 or advanced entrance mathematics.

22—Calculus. Elementary course in the differential and integral calculus. Professor Kasner. 3 points.

M., W., and F. at 10.

Prerequisite: Course 21.

23-24—Theory of Equations. Algebraic and numerical solution of equations, determinants, complex numbers. Dr. Bussey. 6 points. M., W., and F. at 2.

Prerequisite: Course A1-A2.

25-26—Calculus. Differential and integral calculus. Professor Cole. Course 25, 2 points; Course 26, 4 points.

M., W., and F. at 11.

Prerequisite: Course 22.

[27-28—Projective Geometry. Projective methods of pure geometry. 6 points. Dr. Bussey.

Prerequisite: Courses 21 and 22.

Not given in 1906-07.]

[29-30—Differential Equations. Ordinary and partial differential equations, with applications to geometry. Professor Kasner. 6 points. Prerequisite: Course 25-26.

Not given in 1906-07.]

31-32—Advanced Analytical Geometry. Modern methods in analytical geometry; solid analytical geometry. Dr. Bussey. 6 points. M., W., and F. at 1.

Prerequisite: Course 21-22.

33-34—The Fundamental Concepts of Modern Mathematics. Lectures, discussions, and reports. Professor Kasner. 6 points.

M., W., and F. at 11.

Prerequisite: Course 25-26.

† 151-152—History of Mathematics. Professor D. E. Smith. 4 points.

Tu. and Th. at 9.

## **MECHANICS**

[25-26—Theoretical Mechanics. Professor Kasner. 6 points. Prerequisite: Mathematics 25-26.

Not given in 1906-07.]

### MUSIC

A full statement of the nature of the music courses, the requirements for admission thereto, and the regulations concerning registration therefor will be found in the current edition of the Announcement of the Faculty of Fine Arts, of which the Department of Music is part, which can be obtained, without charge, upon application to the Secretary of Columbia University.

\* 1-2—General Musical Course. Professor McWноор. 2 points. F. at 10.

\* 5-6—Harmony. Professor McWhood. 4 points.

W. and F. at 11.

Students in Course 5-6 are recommended to take also Course 11-12.

\* 10—Analysis of Musical Sound. Musical sounds in general; description of orchestral instruments, fully illustrated. Professor Mc-Whood. 1 point.

Tu. at 3.

\* II-I2—Musical Dictation. Professor McWhood. I point, when taken in connection with some other course in music.

W. at 1.

\*13-14—Musical Dictation, advanced. Professor McWhood. I point, when taken in connection with some other course in music. F. at 9.

\* 19-20—University Chorus. A mixed chorus, open to all students. Professor RÜBNER. I point, when taken in connection with some other course in music.

Th. at 3.

\* 101-102—General Musical Course, advanced. Discussion of modern music. Professor Rübner. 2 points.

W. at 3.

\* 103-104—Advanced Harmony and Practical Composition. Professor McWhood. 2 points.

F. at 1.

\* 105-106—Counterpoint. Professor McWhood. 4 points.

W. and F. at 2.

\* 107-108—Free Composition. Professor Rübner. 2 points.

Th. at 9.

\* 109-110-Orchestration. Professor Rübner. 2 points.

Th. at 10.

\* 111-112—Free Composition, advanced. Professor Rübner. 2 points.

W. at 9.

\* 113-114—Orchestration and Symphonic Form, advanced. Professor Rübner. 2 points.

W. at 10.

#### PHILOSOPHY AND PSYCHOLOGY

## Philosophy

A1-A2—General Psychology; first half-year. Logic and Scientific Method: second half-year. Professor Lord and Mr. Pitkin. 6 points. Section I (names A-G inclusive), M., W., and F. at 9; Section II (names H-M inclusive) at 10; Section III (names N-Z inclusive) at 11. Prescribed for Sophomores.

21-22—Ethics. Professor Lord. 6 points.

M., W., and F. at 1.

Prerequisite: Course A1-A2.

\* 101-102—Metaphysics. Dr. MILLER. 4 points.

Tu. and Th. at 10.

Prerequisite: Course A1-A2.

[\* 123-124—Historical and Constructive Ethics. Dr. Montague. 4 points.

Prerequisite: Course 21. Not given in 1906-07.]

\* 126—Political Ethics with Special Reference to the Problems of American Democracy. Professor Adler. 2 points.

W. and F. at 4.

Prerequisite: Course 21.

\* 127-128—Ethical Ideals of the Nineteenth Century. Dr. MILLER. 6 points.

M., W., and F. at 3.

Prerequisite: Course 21.

141—Principles and Problems of Æsthetics. Mr. PITKIN. 3 points. M., W., and F. at 3.

Prerequisite: Course A1-A2.

161-162—Historical and Critical Introduction to Philosophy. Dr. Montague. 6 points.

M., W., and F. at 9.

Prerequisite: Course A1-A2.

\* 167-168—The Philosophy of Kant. Dr. Montague. 4 points. M. and W. at 4.

Prerequisite: Course 161-162.

\* 170—The Philosophy of Plato. Dr. Bush. 2 points. Tu. and Th. at 11.

\* 171-172—Modern Philosophy. Professor ———. Hours to be arranged.

## Psychology

For the elementary course in psychology which is prerequisite to all other courses in this subject, see Philosophy Ar.

7-8—Experimental Psychology, introductory course. Dr. Henmon.
2 lectures and 4 hours of laboratory work, counting as 8 points.
Tu. and Th., 1-4.

\* III-II2—Experimental Psychology, advanced course. Professor CATTELL. 4 points.

Tu. and Th. at 10.

Prerequisite: Course 7-8.

\* II3-II4—Experimental Psychology. Laboratory work. 2 to 8 hours weekly, counting as 2 to 4 points for the year. Professor CATTELL, assisted by Mr. HAMILTON.

M., Tu., W., and Th., 2-4.

Parallel: Course III-II2.

\* 161-162—Analytic Psychology. Professor Strong. 4 points. S. 10-12.

\* 171-172—Social Psychology. Professor Dewey. 4 points. Tu. and Th. at 11.

### PHYSICAL EDUCATION

† A1-A2—2 hours a week. Elementary graded gymnastic exercise and lectures on personal hygiene. Miss Brown. 2 points.

Section I, M. and W. at 2; Section II at 3.

Gymnasium fee, \$7.

Prescribed for Freshmen.

Each student is measured and examined at the beginning of the year and exercises are adapted to meet the individual needs of the student.

† BI-B2—2 hours a week. Graded gymnastic exercises and lectures on personal hygiene. Miss Brown. 2 points.

Section I, Tu. and Th. at 2; Section II at 3.

Gymnasium fee, \$7.

Prescribed for Sophomores.

Note.—An annual gymnasium fee of \$7 is required of all students in Barnard College. This entitles the student to a locker and the use of the gymnasium, swimming-pool, hand-ball courts, and bowling alleys at scheduled hours.

For detailed description of other courses in Hygiene and Physical Education, offered by the Faculty of Teachers College, and open to Barnard College students, see the Announcement of the Division of Physical Education.

# **PHYSICS**

TI-I2—General Physics. Mechanics, heat, and sound; first half-year. Magnetism, electricity, and light; second half-year. Professor Maltby and Miss Brooks. 2 lectures and 2 hours of laboratory work. 6 points.

Tu. and Th. at 11.

Prerequisite for Course 12: Course 11.

131—Mechanics and Properties of Matter. Miss Brooks. 2 lectures and 2 or 4 hours of laboratory work. 3 or 4 points.

Tu. and Th. at 9.

Prerequisite: Course 11-12.

132—Light. Miss Brooks. 2 lectures and 3 or 4 hours of laboratory work. 3 or 4 points.

Tu. and Th. at 9.

Prerequisite: Course 11-12.

133—Sound and Heat. Professor Maltby. 2 lectures and 2 or 4 hours of laboratory work. 3 or 4 points.

M. and W. at II.

Prerequisite: Course 11-12.

134—Electricity and Magnetism. Miss Brooks. 2 lectures and 2 or 4 hours of laboratory work. 3 or 4 points.

M. and W. at 11.

Prerequisite: Course 11-12.

135-136—Physical Chemistry. Professor Maltby. 3 lectures and 2, 4, or 6 hours of laboratory work. 8, 10, or 12 points.

Hours to be arranged.

Prerequisite: Course 11-12 and Chemistry 5-6. As a minor to candidates for the degrees of A.M. and Ph.D.; or with a thesis as a major for the degree of A.M.

(For Theoretical Mechanics by Professor Kasner see Mechanics 25-26.)

Psychology. See Philosophy and Psychology.

# ROMANCE LANGUAGES AND LITERATURES

## French

AI-A2—Elementary Course. Mr. Muller and Dr. Gerig. 6 points. M., W., and F. at 10.

Prescribed for students that did not present French at entrance.

1B-2B—Grammar, Reading, Composition. Mr. Muller and Dr. Gerig. 6 points.

M., W., and F. at 11.

Prerequisite to Course 1B: Course A1-A2, or elementary entrance French.

Prerequisite to Course 2B: Course 1B, or intermediate entrance French.

1—General Introduction to the Study of French Literature. Seventeenth Century. Composition. Mr. Muller. 3 or 4 points.

M., W., and F. at 3; (and for students entering on intermediate French, also Tu. at 3.)

Prerequisite: Course 1B-2B, or advanced entrance French.

2—General Introduction to the Study of French Literature. Eighteenth and Nineteenth Centuries. Composition. Mr. Muller. 3 or 4 points.

M., W., and F. at 3; (and for students entering on intermediate French, also Tu. at 3).

Prerequisite: Course 1.

3-4—Historical French. Practice in reading, writing, and speaking French. Mr. JORDAN. 6 points.

M., W., and F. at 11.

Prerequisite: Course 1-2.

5-6—History of French Literature during the Seventeenth Century. Professor Page. 6 points.

M., W., and F. at 11.

Prerequisite: grade C in Course 1-2, or Course 3-4.

101-102—History of French Literature during the Eighteenth Century. Mr. BARGY. 6 points.

M., W., and F. at 1.

Prerequisite: Course 5-6.

Courses 101-102 are a combination of Courses 101-102 and 103-104 as given in Columbia College.

105-106-History of the Literary Movement in France during the

First Half of the Nineteenth Century. Mr. BARGY. 4 points.

M. and W. at 2.

Prerequisite: Course 5-6.

Courses 105-106 and 107-108 are given in alternate years.

[107-108—History of the Literary Movement in France during the Second Half of the Nineteenth Century. Mr. Bargy. 4 points.

M. and W., at 2.

Prerequisite: Course 5-6.

Not given in 1906-07.]

[\* 109-110—History of Literary Criticism in France, with special attention to Sainte-Beuve and Brunetière. Mr. BARGY. 4 points.

Prerequisite: Course 5-6.

Not given in 1906-07.]

Courses 109-110 and 111-112 are given in alternate years.

\* III-II2—French Literature in the Sixteenth Century. Professor Loiseaux. 4 points.

Tu. and Th. at 3.

Prerequisite: Course 5-6.

\* 113—Old French: Reading of Selected Extracts. Professor Todd. 2 points.

Tu. and Th. at 3.

Prerequisite: Course 5-6.

\* 114—Old French: Reading of Complete Texts. Professor Todd. 2 points.

Tu. and Th. at 3.

Prerequisite: Course 113.

D—French Conversation, General Course. Mr. ———. One hour a week.

May be omitted in 1906-07.

The aim of this course will be to give the students an opportunity to use the vocabulary acquired by previous reading. It will consist of easy anecdotes read and discussed in the class, introducing subjects of every-day conversation. It cannot be counted for a degree.

#### Italian

1-2—Elementary Course. Grammar, reading, composition. Mr. BIGONGIARI. 6 points.

M., W., and F. at 11.

This course may not be taken at the same time with Spanish 1-2.

3-4—General Introduction to the Study of Italian literature. Professor Speranza. 6 points.

M., W., and F. at 1.

Prerequisite: Course 1-2.

[\* 101—Italian Literature of the Fourteenth Century, exclusive of the Divina Commedia. Composition. Professor Speranza. 3 points.

Prerequisite: Course 3-4.

Not given in 1906-07; given in 1907-08.]

[\* 102—Italian Literature of the Fifteenth Century. Composition. Professor Speranza. 3 points.

Prerequisite: Course 101.

Not given in 1906-07; given in 1907-08.]

Courses 101-102 and 103-104 are given in alternate years.

\* 103—Italian Literature of the First Half of the Sixteenth Century Composition. Mr. BIGONGIARI. 3 points.

M., W., and F. at 2.

Prerequisite: Course 1-2.

\* 104—Italian Literature of the Second Half of the Sixteenth Century and of the Period of Decadence down to the middle of the Eighteenth Century. Composition. Mr. BIGONGIARI. 3 points.

M., W., and F. at 2.

Prerequisite: Course 103.

\* 107-108—Critical Study of Dante's Divina Commedia. First and second courses. Professor Speranza. 4 points.

Tu. and Th. at 2.

Prerequisite: Either Course 102 or 104.

Courses 107-108 and 109-110 are given in alternate years.

[\* 109-110—Critical Study of Dante's Divina Commedia. Third and fourth courses. Professor Speranza. 4 points.

Prerequisite: Either Course 102 or 104.

Not given in 1906-07.]

## Spanish

1-2—Elementary Course. Grammar, reading, composition. Professor Loiseaux. 6 points.

M., W., and F. at 11.

This course may not be taken at the same time with Italian 1-2.

3-4—General Introduction to Spanish Literature. Grammar, reading, composition. Professor Loiseaux. 6 points.

M., W., and F. at 10.

Prerequisite: Course 1-2.

[\* 103-104—The Spanish Novela of the Golden Age. Dr. Fitz-Gerald. 6 points.

Prerequisite: Course 3-4.

Not given in 1906-07.]

Courses 103–104 and 105–106 are given in alternate years.

\* 105-106—The Spanish Classical Drama. Dr. FITZ-GERALD. 6 points.

M., W., and F. at 3.

Prerequisite: Course 3-4.

## Romance Philology

\* 101—Introduction to Romance Philology, especially Phonology. Professor Todd. 2 points.

M. and W. at 4.

Prerequisite: French 5-6.

\* 102—Introduction to Romance Philology, especially Morphology. Professor Todd. 2 points.

M. and W. at 4.

Prerequisite: Course 101.

# ZOÖLOGY

I(a)-2(a)—General Biology and General Zoölogy. Elementary course. Professor Crampton, Dr. McGregor, Miss Dederer, and Miss Reed. 2 lectures and 4 hours of laboratory work. 8 points.

Tu. and Th. at 1. Laboratory work, Tu. and Th., or W. and F., 2-4.

Laboratory fee, \$5.

Open to Sophomores, Juniors and Seniors; especially designed for students that have taken Physics 11-12, Chemistry 5-6, and Botany 51-52, and for students of physiology. geology, and medicine, as well as for those who intend to pursue zoölogy and botany,

r(b)—Histology. r lecture and 2 hours of laboratory work. 2 points. W. at 9.

Laboratory fee, \$2.50, unless taken with Course I(a).

Prerequisite or parallel: Course I(a). Recommended as a parallel to Course I(a).

2(b)—Embryology. 1 lecture and 2 hours of laboratory work. 2 points.

W. at 9.

Laboratory fee, \$2.50, unless taken with Course 2(a) or Course 102. Prerequisite or parallel: Course 2(a). Recommended as a parallel to Course 2(a).

4—Experimental Biology. An introduction to the experimental study of growth, reactions to stimuli, development, inheritance and related topics. Professor Crampton. 3 hours of lectures, conferences and laboratory work. 2 points.

M. at 1.

Laboratory fee, \$1.25.

Prerequisite: Course 1-2.

This course gives opportunity to undergraduates to become familiar with some of the methods and results of experimental research, and forms a desirable preparation for graduate work in experimental subjects.

5—General Biology. The general principles of biology, variation, inheritance, evolution, geographical distribution, animal coloration, and related topics. Professor CRAMPTON. 3 hours of lectures, conferences and laboratory work. 2 points.

M. at 1.

Laboratory fee, \$1.25.

Prerequisite: Course 1-2.

This course supplements the general discussions given in Courses 1-2 and 101-102, and gives opportunity for a more critical and extended treatment of general principles.

101-102—General Zoölogy. Advanced course. Professor CRAMPTON,

Dr. McGregor, and Miss Reed. 3 lectures and 6 hours of laboratory work. 12 points.

M., W., F., 9-12.

Laboratory fee, \$5.

Prerequisite: Course 1-2 including 2 (b).

This course is designed for students intending to enter medicine, also for students of zoölogy and botany, as graduate subjects.

151-152—General Physiology. General principles of animal physiology. Miss Reed. 2 lectures, and 4 hours of demonstration and laboratory work. 8 points.

Tu. and Th., 9-12.

Laboratory fee, \$5.

Open to Juniors and Seniors.

This course is designed for students of zoology, botany, and psychology, as well as for students intending to study medicine, and may be taken together with, or subsequent to, Course 1-2.

153-154—Practical Zoölogy and Embryology. Dr. McGregor and Miss Dederer. 3 hours of conference and laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, \$5.

Prerequisite: Course 1-2.

This course is designed for students of zoology desiring practice in the preparation and mounting of zoological, histological, and embryological materials for microscopic examination.



# SCHEME OF

	1		
Hours	MONDAY	TUESDAY	WEDNESDAY
9.10	*Astronomy 103-104 Botany 51-52 Economics A (I) German 1-2 (I) German 5-6 (I) German 10-20 Latin B1-B2 (I, II) Mathematics A1-A2 (I) Philosophy A1, A2 (I) Philosophy 161-162 Zoölogy 101-102	*Anthropology 121-122 Botany 153 Botany 156 English 37, 38 †Geography 1-2 German 13-14 Greek 11-12 History A1-A2 (I) Latin A1-A2 (I, II) (Latin 17-18) Mathematics A1-A2 (III IV) †Mathematics 151-152 Physics 131, 132 Zoölogy 151-152	*Anthropology 101-102 Botany 51-52 Economics A (I) German 1-2 (I) German 19-20 Latin BI-B2 (I, II) Mathematics AI-A2 (I) *Music 111-112 Philosophy AI, A2 (I) Philosophy 161-162 Zoölogy 1 (b), 2 (b) Zoölogy 101-102
10.10	*Anthropology II5-II6 †Education A (b) (I, II) English 23-24 English 25-26 French AI-A2 German AI-A2 (I) Greek 3, 4 History 3-4 Latin 3, 4 †Latin 51-52 Mathematics AI-A2 (II) Mathematics 2I, 22 Philosophy AI, A2 (II) Spanish 3-4 Zoölogy IOI-IO2	*Anthropology 117-118 Botany 53-54 English A1-A2 †Geography 1-2 Geology 101-102 Greek 21-22 History A1-A2 (II) History 11-12 †Latin 101-102 *Philosophy 101-102 *Psychology 111-112 Zoölogy 151-152	*Anthropology 115-116 †Education A (b) (I, II) English 23-24 English 25-26 French A1-A2 German A1-A2 (I) *Germanic 117-118 Greek 3, 4 History 3-4 Latin 3, 4 †Latin 51-52 Mathematics A1-A2 (II) Mathematics 21, 22 *Music 113-114 Philosophy A1, A2 (II) Spanish 3-4
	*Anthropology 103-104 Chemistry 5-6 †Education 87 †Education 121-122 English 31-32 English 35-36 French 1B-2B French 3-4 French 5-6 Greek 5, 6 History 13-14 Italian 1-2 Latin 7, 8 Mathematics 25-26 Mathematics 33-34 Philosophy A1, A2 (III) Physics 133, 134 Spanish 1-2 Zoölogy 101-102	Economics 109, 110 English 1-2 German 17-18 *German 129-130 Latin 1, 2 Latin 5, 6 Latin 9-10 *Philosophy 170 Physics 11-12 *Psychology 171-172 Zoölogy 151-152	Zoölogy 101-102  *Anthropology 103-104 Chemistry 5-6 †Education 87 †Education 121-122 English 31-32 English 35-36 French 1B-2B French 3-4 French 5-6 Greek 5, 6 History 13-14 Italian 1-2 Latin 7, 8 Mathematics 25-26 Mathematics 33-34 *Music 5-6 Philosophy A1, A2 (III) Physics 133, 134 Spanish 1-2 Zoölogy 101-102

For hours of Education A(b) III, IV, V, VI, VII, and VIII and of Education B
Courses marked with an asterisk [\*] are given at Columbia University;

# ATTENDANCE

	1	
THURSDAY	FRIDAY	SATURDAY
*Anthropology 121-122 Botany 153 Botany 156 English 37, 38 †Geography 1-2 German 13-14 Greek 11-12 History A1-A2 (I) Latin A1, A2 (I, II) Mathematics A1-A2 (III, IV) †Mathematics 151-152 *Music 107-108 Physics 131, 132 Zoölogy 151-152	*Anthropology 101-102 Botany 51-52 †Education B (I) German 1-2 (I) German 5-6 (I) Latin B1-B2 (I, II) Mathematics A1-A2 (I) *Music 13-14 Philosophy A1, A2 (I) Philosophy 161-162 Zoölogy 101-102	†Geography 1-2 History A1-A2 (I) Latin A1, A2 (I, II) Mathematics A1-A2 (III, IV)
*Anthropology 117-118  *Astronomy 103-104  Botany 53-54  English A1-A2  Geology 101-102  German 3-4 (I)  History A1-A2 (II)  History 11-12  Latin 15-16  †Latin 101-102  *Music 109-110  *Philosophy 101-102  *Psychology 111-112  Zoölogy 151-152	†Education A (b) (I, II) English 23-24 French A1-A2 German A1-A2 (I) *Germanic 117-118 Greek 3, 4 (Greek 23-24) History 3-4 Latin 3, 4 †Latin 51-52 Mathematics A1-A2 (II) Mathematics 21, 22 *Music 1-2 Philosophy A1, A2 (II) Spanish 3-4 Zoölogy 101-102	English A1-A2 History A1-A2 (II) History 11-12 *Psychology 161-162
*Anthropology 129-130 *Astronomy 1-2 Economics 109, 110 English 1-2 German 17-18 *German 129-130 Latin 1, 2 Latin 5, 6 Latin 9-10 *Philosophy 170 Physics 11-12 *Psychology 171-172 Zoölogy 151-152	Botany 55-56 Chemistry 5-6 French 1B-2B French 3-4 French 5-6 Greek 5, 6 History 13-14 Italian 1-2 Latin 7, 8 Mathematics 25-26 Mathematics 33-34 *Music 5-6 Philosophy A1, A2 (III) Spanish 1-2 Zoölogy 101-102	*Psychology 161-162

II, III, IV, and V, see page 67.
those marked with a dagger [†] are given at Teachers College.

# SCHEME OF

Hours	MONDAY	TUESDAY	WEDNESDAY
1.10	Anthropology 1-2 †English 55-56 French 101-102 German 1-2 (II) German 5-6 (II, III) *German 107-108 Greek 9, 10 Italian 3-4 Mathematics 31-32 Philosophy 21-22 Zoölogy 4, 5	Economics 105 Economics 120 English B1-B2 German 3-4 (I) German 7, 8 German 9, 10 (I) German 11, 12 *German 131-132 Psychology 7-8 Zoölogy 1(a)-2(a)	Anthropology 1-2 Economics, 121, 122 †English 55-56 French 101-102 German 1-2 (II) German 5-6"(II,5,III) *German 107-108 Greek 9, 10 Italian 3-4 Mathematics 31-32 *Music 11-12 Philosophy 21-22
2.10	Economics A (II) Economics 4 English 29-30 French 105-106 German AI-A2 (II) *German 113-114 Greek 1-2 History 169-170 *Italian 103, 104 Mathematics 23-24 †Physical Education AI-A2 (I) *Psychology 113-114	†Education 5-6 English 41, 42 German 3-4 (II) German 9, 10 (II) *German 109-110 Greek 1-2 Greek 7, 8 Greek 17-18 History 9-10 History 155-156 *Italian 107-108 †Physical Education B1-B2 (I) Psychology 7-8 *Psychology 113-114	Economics A (II) Economics 4 English 29-30 French 105-106 German AI-A2 (II) *German 113-114 Greek 1-2 History 169-170 *Italian 103, 104 Mathematics 23-24 *Music 105-106 †Physical Education AI-A2 (I) *Psychology 113-114
3.10	†Anthropology 105106 English 7-8 French 1, 2 *Germanic 123-124 Greek 15, 16 *Philosophy 127-128 Philosophy 141 †Physical Education A1-A2 (II) *Psychology 113-114 *Spanish 105-106	†Education B (I) English 11-12 French 1, 2 (Composition) *French 111-112 *French 113, 114 History 127-128 *Music 10 †Physical Education B1-B2 (II) Psychology 7-8 *Psychology 113-114 *Sociology 151-152	French 1, 2 *Germanic 123-124 Greek 15, 16 *Music 101-102
4.10	†Education A (c) *Germanic 127-128 *Philosophy 167-168 *Romance Philology 101,	*Anthropology 125-126 †Education 21-22 †Fine Arts 3-4 *German 105, 106	*Anthropology 113 †Biblical Literature 1-2 *Germanic 127-128 *Philosophy 126 *Philosophy 167-168 *Romance Philology 101 102
5.10		†Education 2 †Fine Arts 3-4 (5-5.30)	

For hours of Education A(b) III, IV, V, VI, VII, and VIII and of Education B Courses marked with an asterick [\*] are given at Columbia University;

# ATTENDANCE

THURSDAY	FRIDAY	SATURDAY
Economics 105 Economics 120 English B1-B2 German 7, 8 German 9, 10 (I) German 11, 12 *German 131-132 Psychology 7-8 Zoölogy 1(a)-2(a)	Anthropology 1-2 Economics 121, 122 †English 55-56 French 101-102 German 1-2 (II) German 5-6 (II, III) Greek 9, 10 Italian 3-4 Mathematics 31-32 *Music 103-104 Philosophy 21-22	
†Education 5-6 English 41, 42 German 3-4 (II) German 9, 10 (II) *German 109-110 Greek 1-2 Greek 7, 8 Greek 17-18 History 9-10 History 155-156 *Italian 107-108 †Physical Education B1-B2 (I) Psychology 7-8	Economics A (I, II) Economics 4 English 29-30 German A1-A2 (II) Greek 1-2 *Italian 103, 104 Mathematics 23-24 *Music 105-106	
*Psychology 113-114 †Education B (I) English 11-12 *French 111-112 *French 113, 114 History 9-10 History 127-128 Latin 13-14 *Music 19-20 †Physical Education B1-B2 (II) Psychology 7-8 *Psychology 113-114 *Sociology 151-152	*Anthropology 105-106 *Anthropology 111-112 *Anthropology 127 English 7-8 French 1, 2 Greek 15, 16 *Philosophy 127-128 Philosophy 141 *Spanish 105-106	
†Education 21-22 *German 105, 106	*Anthropology 125-126 †Biblical Literature 1- *Philosophy 126	
†Education 2		

II, III, IV, and V, see p. 67. those marked with a dagger (†) are given at Teachers College.

# ACADEMIC CALENDAR

1906-1907

1906—Aug. 29—Wednesday, Last day for filing applications for delinquent examinations.

Sept. 10—Monday, Last day for filing applications for September entrance examinations by candidates for admission.

Sept. 17—Monday, Entrance examinations and examinations for deficient and debarred students begin.

Sept. 19—Wednesday, Registration begins.

Sept. 25—Tuesday, Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.

Sept. 26—Wednesday, First half-year, 18th year, begins.

Registration ceases for students matriculating for the

first time. Later applications received only upon payment of an additional fee of \$5.

Nov. 6—Tuesday, Election Day, holiday.

Nov. 29—Thursday,

to

Dec. 1—Saturday, inclusive, Thanksgiving Day holidays.

Dec. 22—Saturday,

to

1907—Jan. 5—Saturday, inclusive, Christmas holidays.

Jan. 14—Monday, Last day for filing applications for mid-year entrance examinations.

Jan. 21—Monday, Mid-year entrance examinations begin.

Jan. 23—Wednesday, Mid-year examinations begin.

Feb. 2—Saturday, First half-year ends.

Registration ceases for students entering the second half-year. Later applications received only upon payment of an additional fee of \$5.

Feb. 4-Monday, Second half-year begins.

Feb. 22-Friday, Washington's Birthday, holiday.

Mar. 28—Thursday,

to

April 1-Monday, inclusive, Easter holidays.

April 2—Tuesday, Last day for filing applications for scholar-ships.

May 22—Wednesday, Final examinations begin.

- May 30-Thursday, Memorial Day, holiday.
- June 3—Monday, Last day for filing lists of elective courses.
- June 7—Friday, Class Day.
- June 9—Sunday, Baccalaureate service.
- June 12—Wednesday, Commencement Day.
- June 17—Monday, Examinations of the College Entrance Examination Board begin. For dates for filing applications, see Document No. 19, issued by the Board, Post-office Sub-station 84, New York, N. Y.
- Aug. 28—Wednesday, Last day for filing applications for delinquent examinations.
- Sept. 9—Monday, Last day for filing applications for September entrance examinations by candidates for admission.
- Sept. 16—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 18—Wednesday, Registration begins.
- Sept. 24—Tuesday, Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
- Sept. 25—Wednesday, First half-year, 19th year, begins.

  Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.



